

U.S. Coast Guard Oceanographic Report

UNITED STATES COAST GUARD
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REPORT No. 26

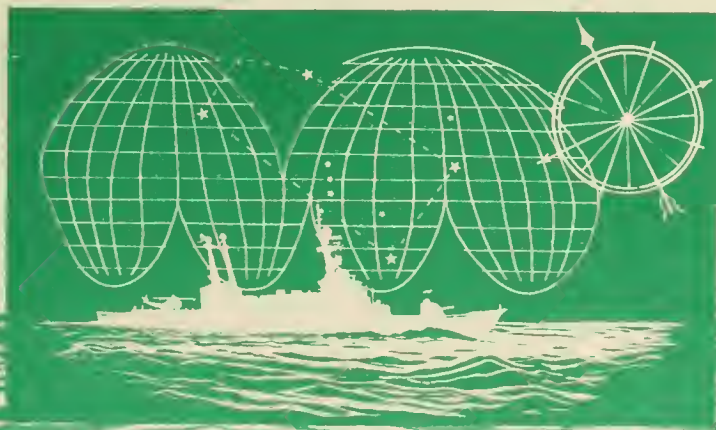
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NORTH PACIFIC OCEAN STATION NOVEMBER

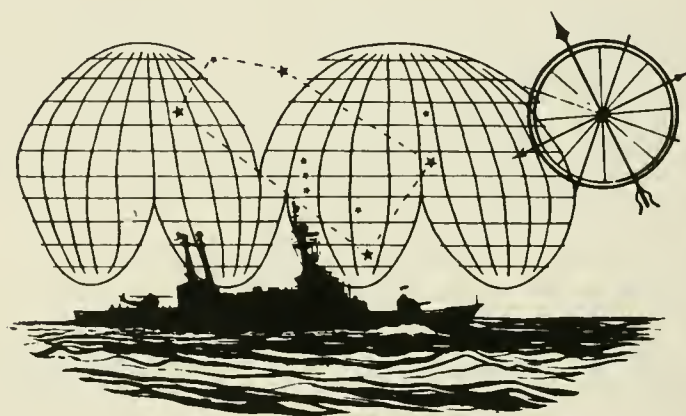
March 1967-March 1968

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REPORT No. 26 CG 373-26

OCEANOGRAPHIC OBSERVATIONS
NORTH PACIFIC OCEAN STATION NOVEMBER
30°00' N., 140°00' W.

March 1967-March 1968

David M. Husby



WASHINGTON, D.C.



SEPTEMBER 1969



Frontispiece: An extremely large manganese nodule inadvertently retrieved by the USGC PONTCHARTRAIN (WHEC-70) during a deep Nansen cast on Ocean Station NOVEMBER in 3749 meters of water in September 1967. This specimen, weighing approximately 240 Kg., was entangled in the oceanographic cable which was accidentally laid on the bottom. Scientists from the Scripps Institution of Oceanography subsequently identified the rock as probably the largest manganese nodule ever found.

ABSTRACT

This report contains the observed and interpolated temperature and salinity data plus the computed sigma-t, geopotential anomalies and sound velocities for 195 oceanographic stations occupied by U. S. Coast Guard Cutters at Ocean Station NOVEMBER (centered at 30° N, 140° W) between 20 March 1967 and 31 March 1968. The particular cruises were the CGC KLAMATH, 20 March–8 April 1967; CGC PONTCHARTRAIN, 2–19 May 1967; CGC WINONA, 15 June–1 July 1967; CGC PONTCHARTRAIN, 23 July–13 August 1967; CGC PONTCHARTRAIN, 3–24 September 1967; CGC TANEY, 15 October–5 November 1967; CGC KLAMATH, 26 November–17 December 1967; CGC TANEY, 7–28 January 1968; CGC WACHUSETT, 28 January–18 February 1968; CGC TANEY, 18 February–10 March 1968; and the CGC PONTCHARTRAIN, 10–31 March 1968. Daily casts of 13–14 Nansen bottles were made to a depth of 1500 meters when weather conditions permitted. In addition, sampling was successfully extended to near the bottom on at least one station during each patrol.

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Oceanographic Observations North Pacific Ocean Station NOVEMBER 30° 00' N., 140° 00' W., March 1967-March 1968

By David M. Husby

INTRODUCTION

The U.S Coast Guard has been conducting a long-term series of oceanographic observations at Ocean Station NOVEMBER (30°00' N., 140°00' W.) since July 1966 (Husby, 1968). Investigations of oceanographic conditions in this vicinity had been made prior to this time by other organizations (Cochrane, 1950 and Thomas and Amstutz, 1966). The location of NOVEMBER in relation to the other Ocean Stations in the world is shown in figure 1. The sampling program originally consisted of daily Nansen bottle casts to 1500 meters on alternate 21-day patrols. Since 7 January 1968 the program has been expanded to daily Nansen bottle casts on every patrol. Serial observations of temperature and salinity are made at all stations.

This report contains the oceanographic station data from 195 stations at NOVEMBER between March 1967 and March 1968. The cruises were the CGC KLAMATH, 20 March-8 April 1967; CGC PONTCHARTRAIN, 2-19 May 1967; CGC WINONA, 15 June-1 July 1967; CGC PONTCHARTRAIN, 23 July-13 August 1967; CGC PONTCHARTRAIN, 3-24 September 1967; CGC TANEY, 15 October-5 November 1967; CGC KLAMATH, 26 November-17 December 1967; CGC TANEY, 7-28 January 1968; CGC WACHUSETT, 28 January-18 February 1968; CGC TANEY, 18 February-10 March 1968; and the CGC PONTCHARTRAIN, 10-31 March 1968.

PROCEDURES

The Ocean Station Vessels are normally required to maintain their position within a ten-

mile square grid centered on Ocean Station NOVEMBER (30°00' N., 140°00' W.) while engaged in oceanographic operations. Occasionally, the vessels are requested to move their position due south to about 29°00' N., for periods of from one to five days, for other operational commitments. The bathymetry in the vicinity of NOVEMBER is shown in figure 2.

For the daily casts the desired sampling depths are surface, 10, 30, 50, 75, 100, 150, 200, 300, 400, 600, 800, 1000, and 1500 meters. For deep casts, an additional cast was made with desired sampling depths of 2000, 2500, 3000, 3500, 4000, 4500, and 4600 meters (near bottom). A pair of protected, deepsea reversing thermometers was placed in each Nansen bottle and, in addition, on five bottles from 200 to 1500 meters, an unprotected thermometer was paired with the two protected ones for the thermometric determination of the sampling depths. Depths which were determined thermometrically are preceded by a "T" in the station data. Field observations of temperature were transmitted via radio teletype to the Coast Guard Oceanographic Unit, Washington D.C. for real-time data processing and quality control. Procedures used in the recording and processing of the temperature data essentially follow those outlined in U.S. Naval Oceanographic Office Pub. No. 607 (Third ed., 1968) and LaFond (1951). The Coast Guard Oceanographic Unit uses a Digital Equipment Corporation PDP-5 computer to process the temperature data.

Salinity samples were drawn from each Nansen bottle and the salinity content of each sample determined aboard ship using inductive

salinometers. Duplicate water samples were drawn from the surface and 1500 meter Nansen bottle at each station and delivered to the Coast Guard Oceanographic Unit for quality control when the vessels returned to port. These samples were run by a different operator and on a different instrument and it was found that, on the average, 89 percent of the samples differed from the ship's values by less than 0.010‰ . The samples were higher in salinity than the ship's values by an average of only $.004\text{‰}$ after about a month's period.

Processed temperature and salinity data were recorded on form NODC-EXP-3167/25 (3-64), Physical and Chemical Data form for oceanographic stations and delivered to the National Oceanographic Data Center (NODC) for archiving and the preparation of listings. The interpolated temperature and salinities for standard depths, sigma-t values, geopotential anomalies (ΔD) and sound velocities were computed by NODC and listings provided for the preparation of Tables I-XI.

CRUISE NARRATIVES

The CGC KLAMATH occupied 17 oceanographic stations during her 20 March—8 April 1967 patrol. The majority of the casts had maximum useful depths between 1350 and 1950 meters. Two casts had maximum sampling depths of 1113 and 1123 meters due to extremely large wire angles. One deep cast was accomplished, with a maximum sampling depth of 3778 meters in a water depth of 4389 meters. One shallow station has no salinity values due to an error by the operator of the salinometer. Four stations were occupied 90 miles south of O.S. NOVEMBER grid. The distribution of the other 13 stations about the center of NOVEMBER is shown in figure 3. The data are listed by NODC as Ref. No. 31-1079 and as Table I in this report.

The CGC KLAMATH also occupied a line of 18 oceanographic stations from Ocean Station NOVEMBER to the coast of Oregon on the return trip to port. These stations make up a portion of Standard Monitoring Section 4 and the data will be published at a later date. The data are also listed by NODC as Ref. No. 31-1079.

During the period 2-19 May 1967, the CGC

PONTCHARTRAIN occupied 17 oceanographic stations on Ocean Station NOVEMBER. The majority of these stations had maximum useful sampling depths between 1400 and 1700 meters. One cast reached only to 991 meters due to a very large wire angle. One deep cast was accomplished with a maximum sampling depth of 3669 meters in a water depth of 4114 meters. Four stations were taken 90 miles south of NOVEMBER and the distribution of the other 13 stations about the center of NOVEMBER is shown in figure 4. The data are listed by NODC as Ref. No. 31-1080 and as Table II of this report.

The CGC PONTCHARTRAIN also occupied 11 stations on Standard Monitoring Section 6 on the return voyage from O.S. NOVEMBER. The data are also listed by NODC under Ref. No. 31-1080 but will be published at a later date.

The CGC WINONA successfully occupied 17 oceanographic stations during the 15 June-1 July 1967 patrol on Ocean Station NOVEMBER. All seventeen stations had maximum useful depths between 1350 and 1650 meters. No deep cast was accomplished as the ship had difficulties with the winch brake. One station was taken 90 miles south of Ocean Station NOVEMBER and the distribution of the other 16 about the center of NOVEMBER is shown in figure 5. The data are listed by NODC as Ref. No. 31-1083 and as Table III in this report.

The entire 24 stations of Standard Monitoring Section 4 were occupied by the CGC WINONA on the return trip from NOVEMBER. These data are also listed by NODC as Ref. No. 31-1083, but will be published at a later date.

The CGC PONTCHARTRAIN successfully occupied 21 oceanographic stations during the 23 July-13 August patrol at Ocean Station NOVEMBER. All casts except one had maximum useful depths of between 1400 and 1530 meters. The one exception was to only 1296 meters due possibly to a large subsurface current. This station was taken 90 miles south of Ocean Station NOVEMBER, as were two other stations. The distribution of the other stations about the center of NOVEMBER is shown in figure 6. One deep cast was accomplished, with a maximum sampling depth of 4400 meters in

a water depth of 4663 meters. The data are listed by NODC as Ref. No. 31-1142 and as Table IV of this report.

The CGC PONTCHARTRAIN also participated in cooperative deep current observations conducted by personnel from the Scripps Institution of Oceanography. Two free-vehicle type current meters were used for six separate drops with five recoveries. The current meter array consisted of a fiberglass-aluminum pole with float connected by a nylon line to a secondary float to which was connected the current meter instrument and ballast weight. Each pole-float contained a radio beacon, battery and antenna, a radar reflector, and a bright orange flag. Little or no success was experienced with the radio beacons and radar reflectors. The most valuable recovery aid turned out to be the bright orange flag, which was sighted up to 3½ miles distant. The current observations are retained by the Scripps Institution of Oceanography, La Jolla, California.

The CGC PONTCHARTRAIN again was assigned to Ocean Station NOVEMBER patrol for the period of 30 August-29 September 1967. During this period 20 oceanographic stations were occupied. All twenty stations had maximum useful depths between 1400 and 1630 meters. One deep cast was accomplished, with a maximum sampling depth of 3265 meters in a water depth of 3749 meters. One station was occupied 60 miles south of Ocean Station NOVEMBER and one 90 miles south; the distribution of the other stations about the center of NOVEMBER is shown in figure 7. The data are listed by NODC as Ref. No. 31-1163 and as Table V of this report.

In cooperation with the Scripps Institution of Oceanography, six free-vehicle current meters were launched during this patrol and five recovered. Approximately 630 hours of bottom current observations were obtained. These data are retained by the Scripps Institution of Oceanography, La Jolla, California.

The CGC PONTCHARTRAIN also occupied the entire 24 stations of Standard Monitoring Section 6 on the return trip to port. These data are also listed by NODC as Ref. No. 31-1163, but will be published at a later date.

There was an interesting occurrence on the

ship's first attempt at a deep cast on Ocean Station NOVEMBER. A miscalculation was made in the depth of water to the bottom and 500 meters of cable were laid on the bottom. When the cast was retrieved, a large boulder, weighing approximately 240kg. and with dimensions of about 36 inches in height and about 24 inches in breadth, was entangled in the cable and was brought to the surface. The specimen was subsequently given to the Scripps Institution of Oceanography for analysis and was identified as an extremely large manganese nodule. (see frontispiece).

During the 15 October-8 November patrol of the CGC TANEY on Ocean Station NOVEMBER, a total of 21 oceanographic stations were occupied. With the exception of one cast, all casts had maximum useful depths between 1450 and 1650 meters. One station had a maximum sampling depth of only 552 meters due to the failure of a Nansen bottle to release its messenger. One deep cast was accomplished, with a maximum sampling depth of 4270 meters in a water depth of 4390 meters. This distribution of the stations about the center of NOVEMBER is shown in figure 8. The data are listed by NODC as Ref. No. 31-1178 and as Table VI of this report.

The CGC TANEY also occupied 19 oceanographic stations on Standard Monitoring Section 5 on the return trip NOVEMBER. These data are also listed by NODC as Ref. No. 31-1178, but will be published at a later date.

The CGC KLAMATH occupied 13 oceanographic stations during the 26 November-17 December 1967 patrol on Ocean Station NOVEMBER. All stations had maximum useful depths between 1350 and 1950 meters. One deep cast was accomplished, with a maximum sampling depth of 3891 meters in a water depth of 4244 meters. The distribution of the stations about the center of NOVEMBER is shown in figure 9. Two stations were occupied approximately 60 miles south of Ocean Station NOVEMBER. The data are listed by NODC as Ref. No. 31-1185 and as Table VII of this report.

The CGC TANEY occupied 21 oceanographic stations during the 7-28 January 1968 patrol at Ocean Station NOVEMBER. With

the exception of four casts, all casts had maximum useful depths between 1250 and 1600 meters. The four shallow casts had maximum useful depths of 372, 693, 966, and 997 meters, due mainly to bottles failing to release messengers. Adverse weather caused difficult operating conditions and a difficulty in maintaining station, as can be seen in figure 10 which shows the distribution of stations about the center of NOVEMBER. Four stations were taken about 90 miles south of Ocean Station NOVEMBER. One deep cast was accomplished with a maximum sampling depth of 3964 meters in a water depth of 4114 meters. All these data are listed by NODC as Ref. No. 31-1200 and as Table VIII of this report.

During the 28 January-18 February 1968 patrol at Ocean Station NOVEMBER, the CGC WACHUSETT occupied 10 oceanographic stations. All casts had maximum useful depths between 1300 and 1520 meters. A deep cast was not accomplished due to a limited amount of cable available aboard ship. The distribution of the stations about the center of NOVEMBER is shown in figure 11. Daily casts were not accomplished during the entire three week period due to adverse weather conditions. The data are listed by NODC as Ref. No. 31-1205 and as Table IX of this report.

A total of 19 oceanographic stations were occupied by the CGC TANEY during the 18 February-10 March 1968 patrol at Ocean Station NOVEMBER. With the exception of two casts all stations had maximum useful depths between 1350 and 1950 meters. These two exceptions had maximum useful depths of only 449 and 861 meters due to the failure of a bottle to trip and the pretripping of a bottle, respectively; both these malfunctions being probably caused by very large wire angles. No deep cast was accomplished during this patrol. One station was taken outside the Ocean Station grid, about 90 miles directly south of station and the distribution of the other stations about the center of NOVEMBER is shown in figure 12. The data are listed by NODC as Ref. No. 31-1209 and as Table X of this report.

On 19 February 1968 the CGC TANEY performed the mooring of the Scripps Institution of Oceanography oceanographic raft. The raft was moored at 30°01.3 N., 139°56.6 W., in

4300 meters of water. The raft's position was checked throughout the remainder of the patrol by celestial observations and it was found that the raft was not drifting and that there was a 0.3 knot current setting eastward.

During the 10-31 March 1968 patrol by the CGC PONTCHARTRAIN, a total of 19 oceanographic stations were occupied. All stations had maximum useful depths between 1350 and 1800 meters. One deep cast was accomplished with a maximum sampling depth of 4213 meters in a water depth of 4480 meters. Three stations were occupied about 60 miles south of Ocean Station NOVEMBER and the distribution of the other stations about the center of NOVEMBER is shown in figure 13. The data are listed by NODC as Ref. No. 31-1249 and as Table XI of this report.

The CGC PONTCHARTRAIN also occupied 22 of the 24 stations on Standard Monitoring Section 6 between Ocean Station NOVEMBER and Long Beach, California. These data are also listed by NODC as Ref. No. 31-1249, but will be published at a later date.

COOPERATIVE PROJECTS

Occasionally other observations are made on station at the request of and in cooperation with other government agencies or private institutions. In the past, these programs have included the following:

(1) *Deep Free Vehicle Observations*—(Scripps Institution of Oceanography, La Jolla, California)

Deep Current observations have been made at Ocean Station NOVEMBER using a free vehicle equipped with a recording current meter. The vehicle is deployed from 2-5 days, returns to the surface automatically and is retrieved. It has employed an underwater camera. This research is sponsored by the National Science Foundation and is being conducted by Dr. Richard Schwartzlose. All data are retained at the Scripps Institution of Oceanography.

(2) *Survey of Fallout Cesium in the Pacific Ocean*—(Scripps Institution of Oceanography)

Since 1966 several Ocean Station Vessels on Ocean Station NOVEMBER have collected water samples and tested sampling equipment for the determination of the distribution of trace radioactive Cesium in the Pacific. The

sampling program usually consists of four hydrocasts to 850 meters on station with a four hour soak time. Also, a sampling "fish" is towed two hours per day while enroute port at normal cruising speed. This research is sponsored by the Atomic Energy Commission and is being conducted under the direction of Dr. T. R. Folsom.

(3) *Environmental Sampling*—(U.S. Naval Radiological Defense Laboratory, San Francisco, California)

Since September 1965 various Ocean Station Vessels have collected rainwater samples and a surface sea water sample for analysis of fallout distribution.

(4) *Carbon Dioxide Equalization Observations*—(University of Washington)

This program was initiated in spring of 1967 and consists of Ocean Station Vessels collecting volumes of water for an analysis equilibrating CO_2 in the atmosphere with CO_2 in the surface waters of the North Pacific. This research is being sponsored by the National Science Foundation and the Office of Naval Research and is being conducted by scientists at the University of Washington.

DISCUSSION

To illustrate the temporal or gross seasonal changes in water properties at different levels at Ocean Station NOVEMBER plots of water temperature versus time (figures 14, 15, and 16) and salinity versus time (figures 17, 18, and 19) were constructed. The diurnal changes in the surface layers have been effectively eliminated, as the majority of the 195 stations were occupied at the same time each day (2000 hours Greenwich Mean Time or 1100 hours Zone Time). The effects of spatial variability are revealed in the plots of the data from the 32 stations which were occupied from 60–90 miles south of Ocean Station NOVEMBER. These data are indicated in figures 14–19 by the large black dots on the data points. These data reveal that a water mass of significantly warmer temperature and higher salinity was present, at least in the upper 400 meters, just 60 miles to the south.

Figures 14–19 consist of plots of temperature and salinity versus time at the surface and 100, 200, 300, 400, 600, 800, 1000, and 1500

meter levels. The salient feature of the temperature versus time plots is the marked seasonal cycle with a heating period from March to September 1967 and then a cooling period from September 1967 to March 1968. The maximum surface temperatures were observed in September in the range of 24–25°C. The surface temperature dropped to a minimum of less than 18°C in March 1968. During the month of November 1967, the surface temperature appears to have dropped nearly 4.0°C and was the most pronounced change which occurred during the observational period. During the period from December 1967 to January 1968, a convective process raised the 100 meter temperature from 17°C to almost 19°C. The convective mixing appears to have been effective to the 400 meter level raising the temperature from about 7.90°C in December to about 8.40°C in January. From January 1968 to March 1968 there was a gradual decrease of temperature at all levels from the surface to 400 meters. At the 600 meter level and below there was little change in the temperature structure between March 1967 and March 1968.

The salinity versus time plots (figures 17, 18, and 19) reveal a somewhat similar seasonal cycle in the upper 200 meters, however there were anomalous conditions observed during the summer of 1967. Ignoring those stations which were occupied 60–90 miles to the south of Ocean Station NOVEMBER, (those data points with large black dots), the surface salinity appears to be increasing from March 1967 to June 1967, however there were a series of four stations occupied between 9–14 May at which the salinity showed a very significant decrease (nearly 0.40 ‰). These low salinities were associated with relatively low temperatures (17.40° C.) and it appears that there was an influx of a Subarctic type water into the vicinity during this period. The surface salinity reached a maximum of nearly 35.30 ‰ during early June 1967, followed by a sudden, inexplicable decrease in late June. A minimum was observed in the surface salinity in July of about 34.75 ‰ followed by anomalous increases in early August to values approaching 35.40 ‰. After August there appeared to be a trend

toward a seasonal cycle associated with the maximum heating of the surface layers. From September to November 1967 the surface salinity showed a gradual increase from about 35.10 to about 35.25 ‰. This second maximum was observed in October. From November 1967 to March 1968 there was a gradual decrease in surface salinity to a low of about 34.70 ‰.

The salinity at the 100 and 200 meter levels showed a considerable increase from December 1967 to January 1968 due to the convective mixing mentioned above. Since the high temperature at the surface creates a stable structure, it appears that the increase in salinity at the surface promotes the convective process at Ocean Station NOVEMBER. However, from January to March 1968, there was a decrease of salinity in the upper 200 meters. The salinity below 400 meters showed little variability during the observational period.

VERTICAL PROPERTY DISTRIBUTION

Envelopes of temperature and salinity versus depth have been constructed for each cruise to Ocean Station NOVEMBER to show the vertical structure in the water column and to delineate the gross seasonal changes in properties (figure 20–41). These envelopes reveal the basic thermohaline stratification of properties at Ocean Station NOVEMBER: (1) a surface mixed layer, varying from 10 to 150 meters in depth (2) the main thermocline from 200 to 600 meters in depth, and (3) the North Pacific deep water below 600 meters.

Ocean Station NOVEMBER is located in the Subtropical Region of the Pacific Ocean which is characterized by an excess of evaporation over precipitation. The salinity of the water is greatest at the surface and decreases to a minimum between 200 and 800 meters in depth (Tully, 1964). There is no permanent halocline in this region and therefore the stability of the density structure is solely dependent on the temperature structure. The envelopes of temperature versus depth (figures 20–30) illustrate the response of the surface waters to the seasonal cycles of heating and cooling. From March 1967 to May 1967 the effects of winter cooling were evidenced. The surface homogeneous layer (18.0–18.5° C. water) reached a depth of about 100 meters in March and by

May had increased in depth to nearly 150 meters and the temperature was in the range of 17.9–18.9° C. with the exception of four anomalous stations where the temperatures dropped to about 17.4° C. During the period from June 1967 to September 1967, the summer heating established a seasonal thermocline in the upper 100 meters. In September when the maximum surface temperatures of 24.5° C. were reached, there was a negative gradient of almost 7.0° C. in the upper 100 meters. In October 1967, with the advent of a cooling season, the surface temperatures decreased nearly 1.0°C and a shallow mixed layer was formed of about 30 meters in depth. By December 1967 the surface temperature had decreased to the range of 20.0–21.5° C. and the homogeneous layer had increased in depth to about 50 meters. In January 1968 the mixed layer had reached a depth of about 100 meters with temperatures in the range of 19.0–20.5° C. From January to March 1968 the temperature and extent of the mixed layer changed very little, while the dominant process appeared to be an increase of the temperature in the depths between 100 and 400 meters. Little variability was observed in the temperature of the water at the levels below 400 meters. From 600 meters to 1500 meters the temperature showed a gradual decrease from about 5.00° to 2.65°C.

The dominant feature of the salinity versus depth envelopes (figures 31–41) is the salinity minimum located between 200 and 600 meters in depth. The sampling program of sampling at discrete levels obviously does not delineate the continuous vertical structure, but several major features are evident from the salinity envelopes. There is a salinity minimum of about 34.05–34.10 ‰ located at 200 meters. This feature is present during most of the year except during the late winter, January–February, when the convective mixing increases the salinity at this level to the range of 34.20–34.40 ‰. Associated with the salinity minimum at 200 meters there is an intermediate maximum at 300 meters of about 34.10–34.15 ‰.

A permanent feature of the vertical salinity structure at Ocean Station NOVEMBER is the minimum value between 400 and 600 meters.

This salinity minimum ranges between 33.95 and 34.05 ‰ and identifies the upper limit of the North Pacific Intermediate Water at NOVEMBER. Below 600 meters the salinity increases with depth to a value of about 34.56 ‰ at 1500 meters.

SUMMARY

Ocean Station NOVEMBER is located in the Subtropical Region at the eastern North Pacific Ocean which is known to be under the influence of a clockwise gyral motion. In the vicinity of NOVEMBER the flow is so slow, however, that the near surface waters have time to become adjusted to the local atmospheric climate (Tully, 1964). At the latitude of NOVEMBER the seasonal range of temperature is relatively small, 18 to 24°C, and the temperature of the surface waters is maintained at a high level. The dominant climatic influence in the vicinity of NOVEMBER is the excess of evaporation over precipitation. The excess evaporation increases the salinity of the surface waters and therefore increases the density, which, in turn, would promote convective mixing.

The results of the oceanographic observations at Ocean Station NOVEMBER between March 1967 and March 1968 revealed a stable

temperature structure during the entire period with a maximum surface temperature of 24.5°C in September and a minimum of about 17.8°C in March 1968. A convective mixing process was evidenced in January and February 1968 by the rise in temperature at the 100, 200, 300, and 400 meters levels. Due to the stable temperature structure at NOVEMBER, this increase in temperature at the 100–400 meter levels could be explained only by a convective mixing process or by advection. Due to the increase of salinity at these levels during this period the convective mixing process, caused by an increase in surface salinity, is the most likely explanation.

Two minima were observed in the vertical salinity distribution during the spring and summer months, one at about 200 meters and the other at about 500 meters. This situation was explained by Sverdrup (1942) as the result of the oceanic circulation. The upper minimum was identified as the result of the North Pacific Central Water spreading over the Subarctic Water and the lower minimum as the direct continuation of the Intermediate Water flowing in the eastern gyral of the North Pacific Ocean. The upper minimum is destroyed during the winter months by the convective mixing which increases the salinity.

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- CG-373-1 Gladfelter, W. H., et al (1964) Oceanographic Cruise USCGC NORTHWIND, Bering and Chukchi Seas, July-September 1962.
- CG-373-2 Morse, R. M. and J. W. McGary (1964) Oceanographic Observations at North Atlantic Ocean Station ECHO 35° N, 48° W, January-February 1963.
- CG-373-3 McGary, J. W. and R. M. Morse (1964) Oceanographic Observations at North Atlantic Ocean Station DELTA, 44° N, 41° W, March-April 1963.
- CG-373-4 Kollmeyer, R. C., J. W. McGary and R. M. Morse (1964) Oceanographic Observations, Tropical Atlantic Ocean, EQUALANT II August 1963. (Out of Print)
- CG-373-5 Franceschetti, A. P., D. A. McGill, N. Corwin and Elazar Uchupi (1964) Oceanographic Observation, Kennedy Channel, Kane Basin, Smith Sound and Baffin Bay, Summer 1963.
- CG-373-6 Gladfelter, W. H., et al (1965) Oceanographic Cruise, USCGC NORTHWIND Chukchi, East Siberian and Laptev Seas, August-September 1963.
- CG-373-7 McGary, J. W. (1965) Oceanographic Observations at North Atlantic Ocean Station BRAVO, January-April 1964.
- CG-373-8 Husby, D. M. (1966) Oceanographic Observations at North Atlantic Ocean Station CHARLIE, June 1964-January 1965.
- CG-373-9 Husby, D. M. (1967) Oceanographic Observations at North Atlantic Ocean Station BRAVO, August 1964-August 1965.
- CG-373-10 Kollmeyer, R. C., et al (1965) Oceanography of the Grand Banks Region and the Labrador Sea in 1964.
- CG-373-11 Kollmeyer, R. C., et al (1966) Oceanography of the Grand Banks Region of Newfoundland in 1965. (Out of Print)
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- CG-373-13 Wolford, T. C. Oceanography of the Grand Banks Region and the Labrador Sea in 1966. (In Prep.)
- CG-373-14 Husby, D. M. (1968) Oceanographic Observations North Atlantic Ocean Station BRAVO, October 1965-September 1966.
- CG-373-15 Husby, D. M. (1968) Oceanographic Observations at North Pacific Ocean Station VICTOR, December 1964-August 1966.
- CG-373-16 Palfrey, K.M. Oceanography of Baffin Bay and Nares Strait in the Summer of 1966. (In Prep.) (1968).
- CG-373-17 Husby, D. M. Oceanographic Observations at North Atlantic Ocean Station CHARLIE, May 1966-March 1967.
- CG-373-18 Husby, D. M. (1968) Oceanographic Observations at North Pacific Ocean Station NOVEMBER, July 1966-February 1967.
- CG-373-19 Morgan, C. W. (1969) Oceanography of the Grand Banks Region of Newfoundland in 1967.
- CG-373-20 Shuhly, J. L. Oceanographic Observations at North Atlantic Ocean Station BRAVO, October 1966-October 1967. (In Prep.)
- CG-373-21 Shuhly, J. L. Oceanographic Observations at North Atlantic Ocean Station ECHO, October 1966-October 1967. (In Prep.)
- CG-373-22 Stanley, D. J. and G. Kelling (1969) Smithsonian Geological Investigation of Wilmington Submarine Canyon, USCGC ROCKAWAY, 4-10 December 1967.
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- CG-373-24 Husby, D. M. Report of Oceanographic Cruise, USCGC NORTHWIND, Northern Bering Sea-Bering Strait-Chukchi Sea, July 1967. (In Prep.)
- CG-373-25 Garcia, A. W. Oceanographic Results of Kara Barents Sea Survey 1967. (In Prep.)

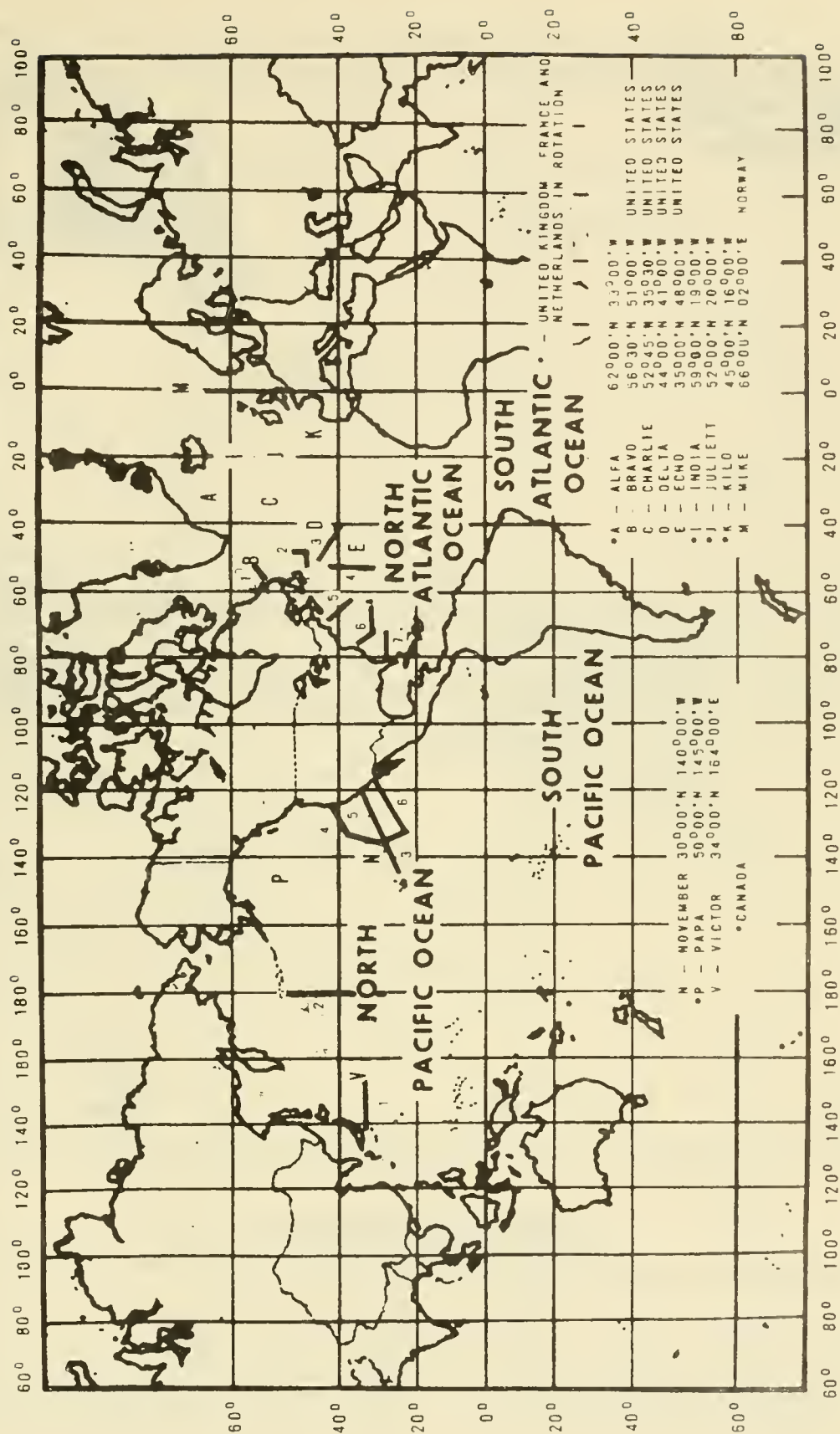
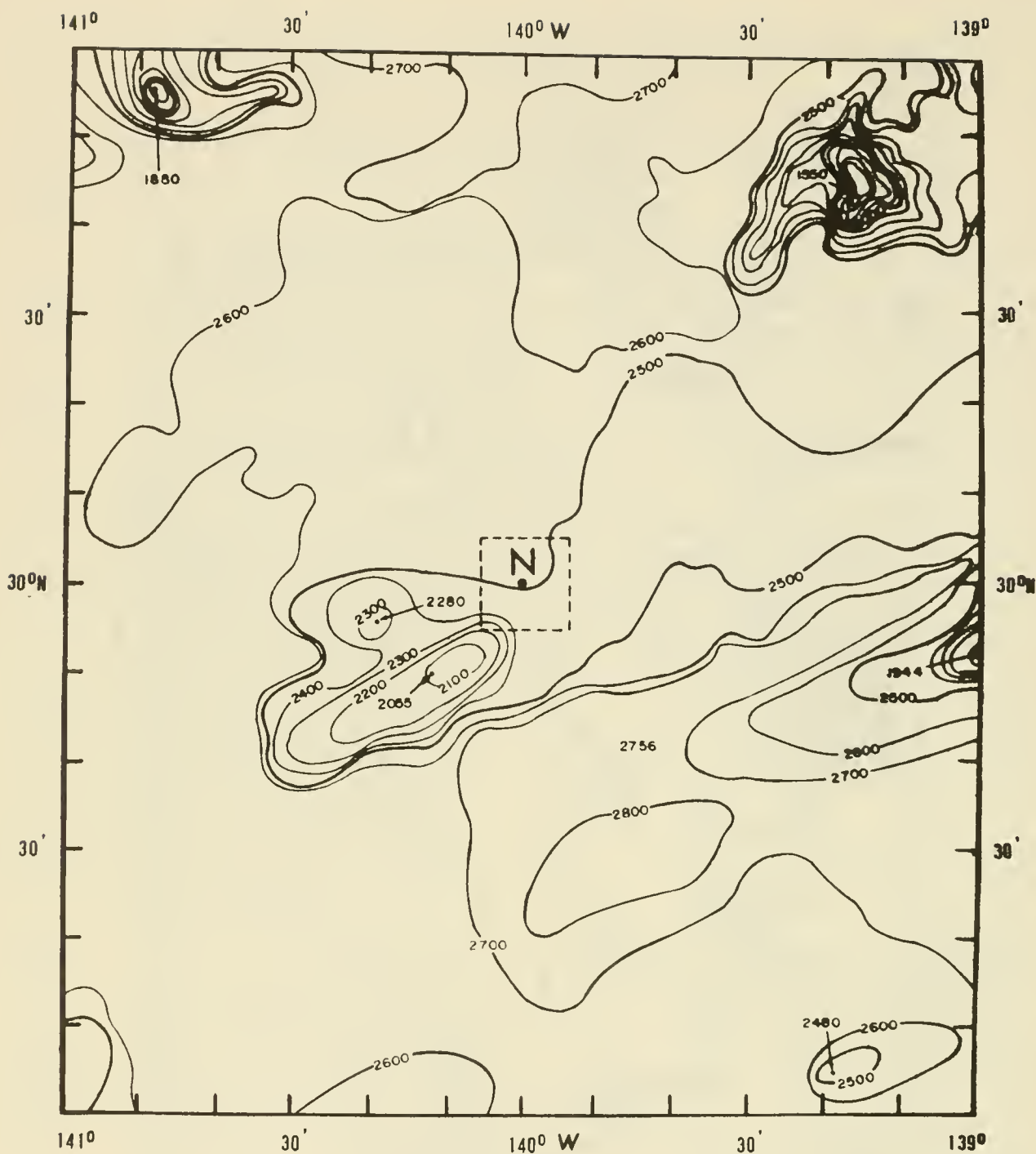


Figure 1.—Chart of all Ocean Stations in the world.



OCEAN STATION NOVEMBER

Figure 2.—Bathymetry in the vicinity of Ocean Station NOVEMBER (Contour interval is 100 fathoms).

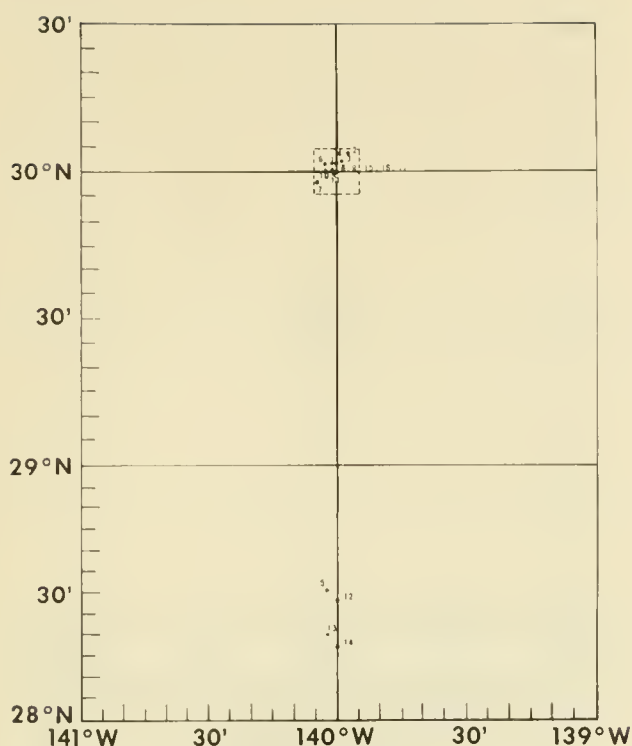


Figure 3.—Positions of oceanographic stations taken by USCGC KLAMATH during 20 March–8 April 1967 at Ocean Station NOVEMBER.

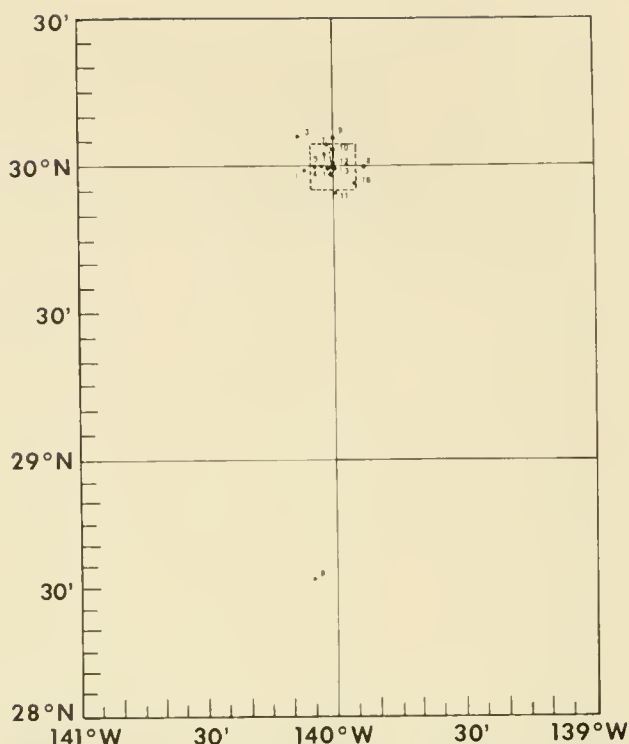


Figure 5.—Positions of oceanographic stations taken by USCGC WINONA during 15 June–1 July 1967 at Ocean Station NOVEMBER.

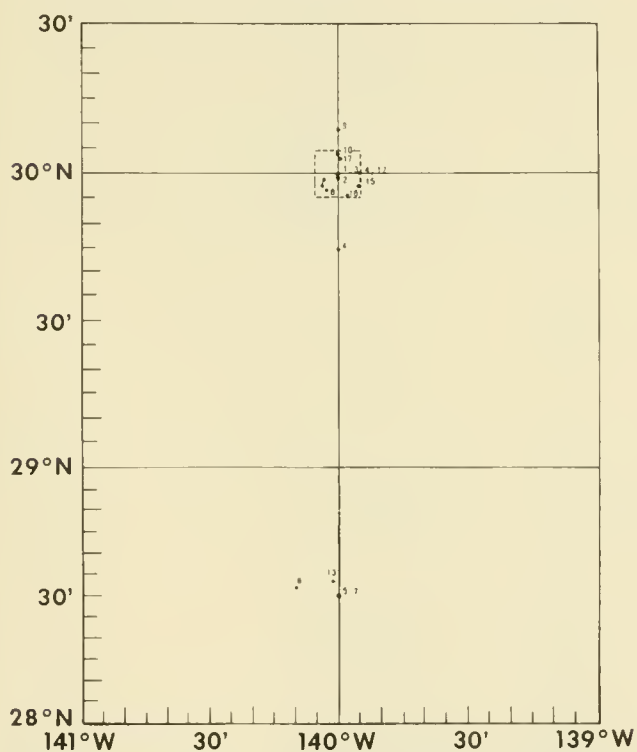


Figure 4.—Positions of oceanographic stations taken by USCGC PONTCHARTRAIN during 2–19 May 1967 at Ocean Station NOVEMBER.

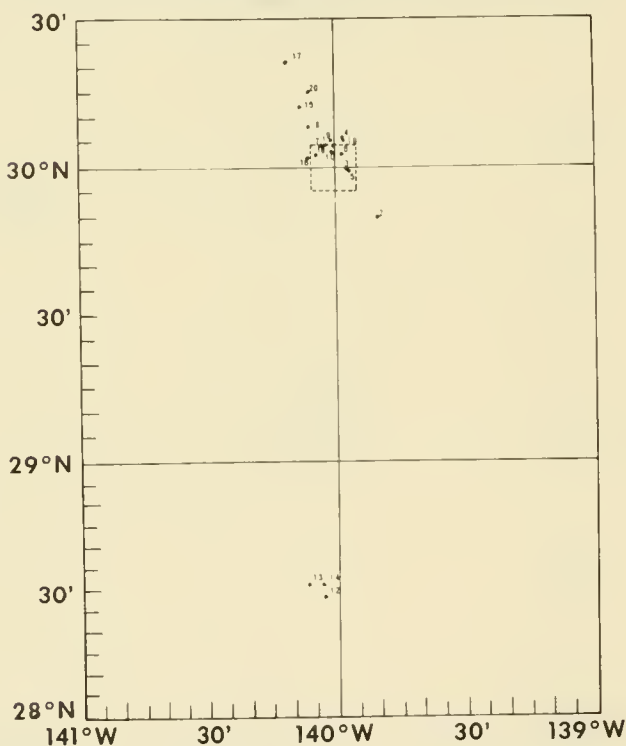


Figure 6.—Positions of oceanographic stations taken by USCGC PONTCHARTRAIN during 23 July–13 August 1967 at Ocean Station NOVEMBER.

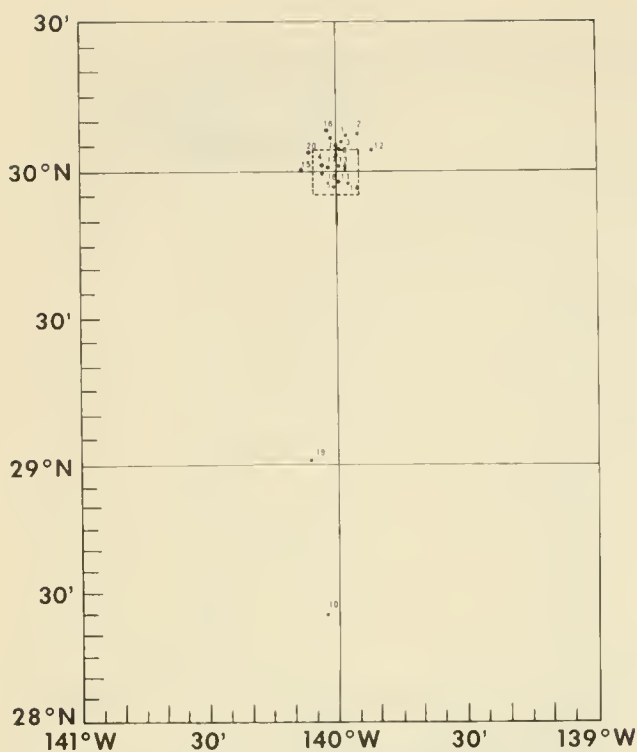


Figure 7.—Positions of oceanographic stations taken by USCGC PONTCHARTRAIN during 3-24 September 1967 at Ocean Station NOVEMBER.

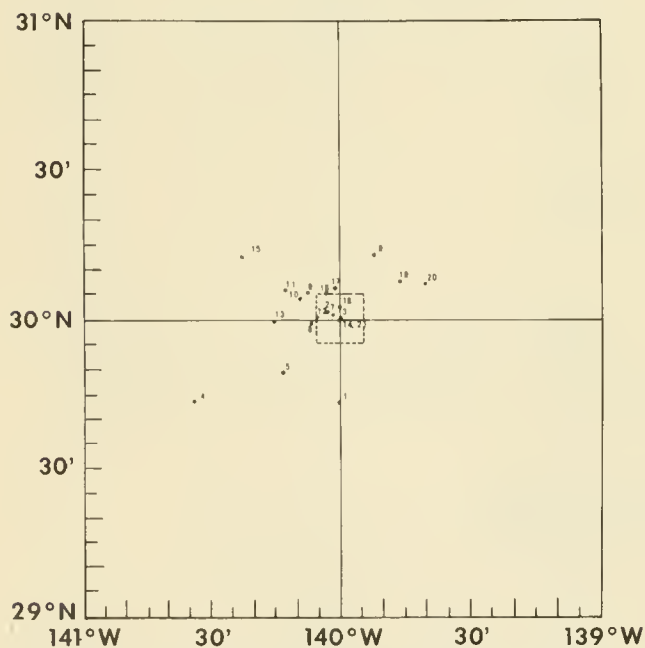


Figure 8.—Positions of oceanographic stations taken by USCGC TANEY during 15 October-5 November 1967 at Ocean Station NOVEMBER.

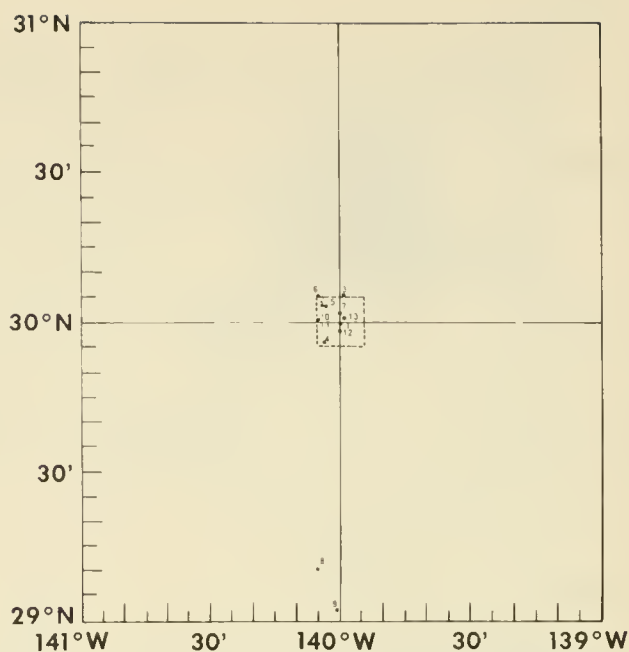


Figure 9.—Positions of oceanographic stations taken by USCGC KLAMATH during 26 November-17 December 1967 at Ocean Station NOVEMBER.

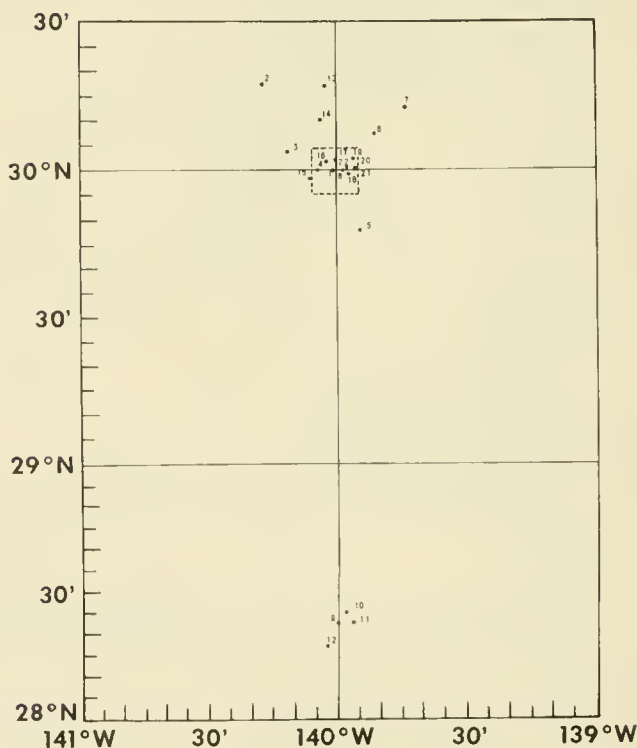
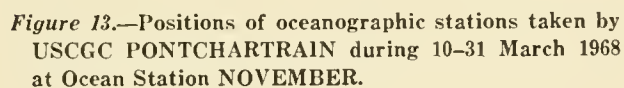
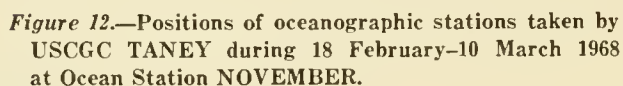
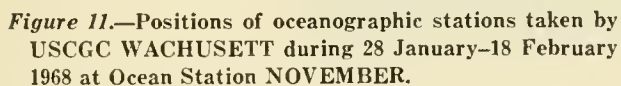


Figure 10.—Positions of oceanographic stations taken by USCGC TANEY during 7-28 January 1968 at Ocean Station NOVEMBER.



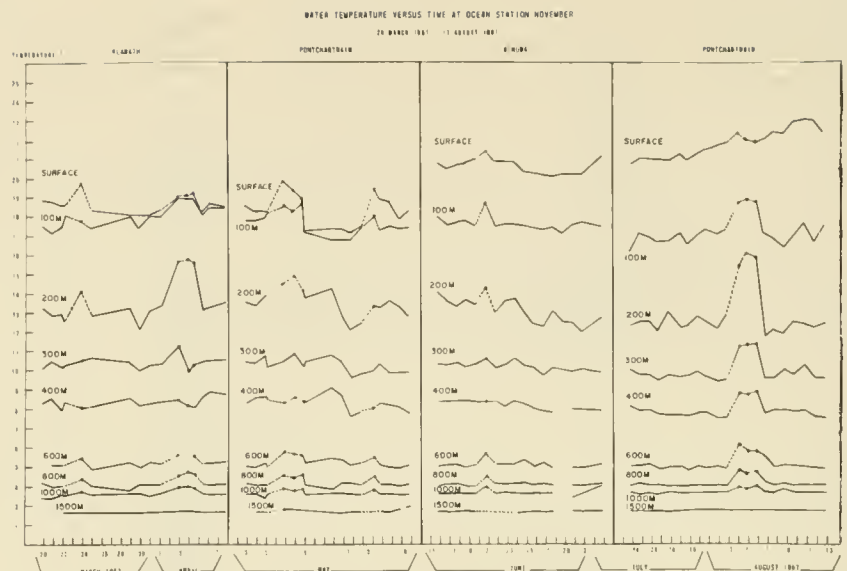


Figure 14.—Water temperature versus time at selected depths at Ocean Station NOVEMBER, 20 March-13 August 1967, (Dashed lines indicate data not taken on consecutive days and solid dots indicate data obtained outside normal O.S. grid, see Figures 3-6).

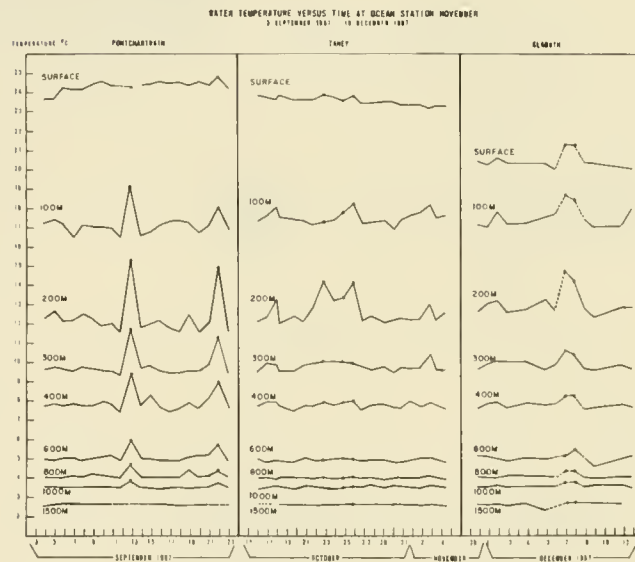


Figure 15.—Water temperature versus time at selected depths at Ocean Station NOVEMBER 3 September-16 December 1967, (Dashed lines indicate data not taken on consecutive days and solid dots indicate data obtained outside normal O.S. grid, see Figures 7-9.)



Figure 16.—Water temperature versus time at selected depths at Ocean Station NOVEMBER, 7 January–31 March 1968. (Dashed lines indicate data not taken on consecutive days and solid dots indicate data obtained outside normal O.S. grid, see Figures 10–13.)

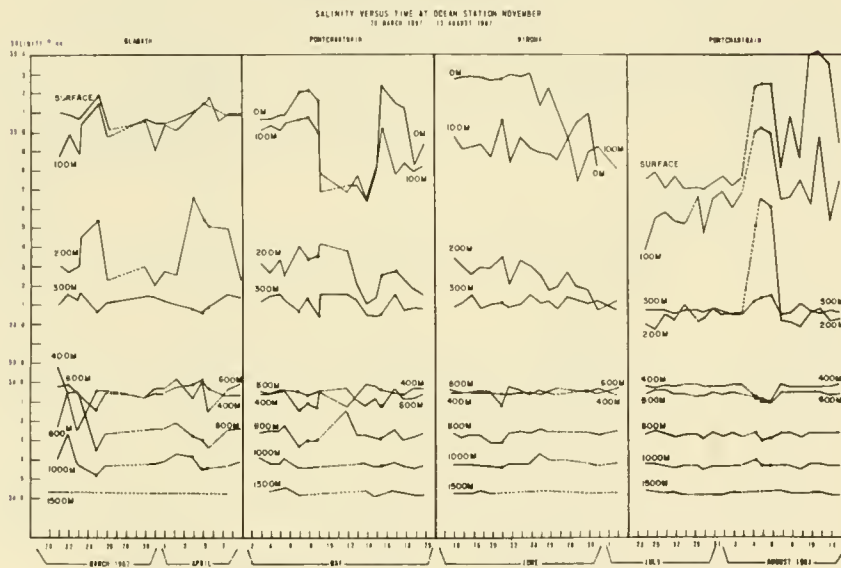


Figure 17.—Salinity versus time at selected depths at Ocean Station NOVEMBER, 20 March–13 August 1967. (Dashed lines indicate data not taken on consecutive days and solid dots indicate data obtained outside normal O.S. grid, see Figures 3–6.)



Figure 18.—Salinity versus time at selected depths at Ocean Station NOVEMBER, 3 September-16 December 1967, (Dashed lines indicate data not taken on consecutive days and solid dots indicate data obtained outside normal O.S. grid, see Figures 7-9.)

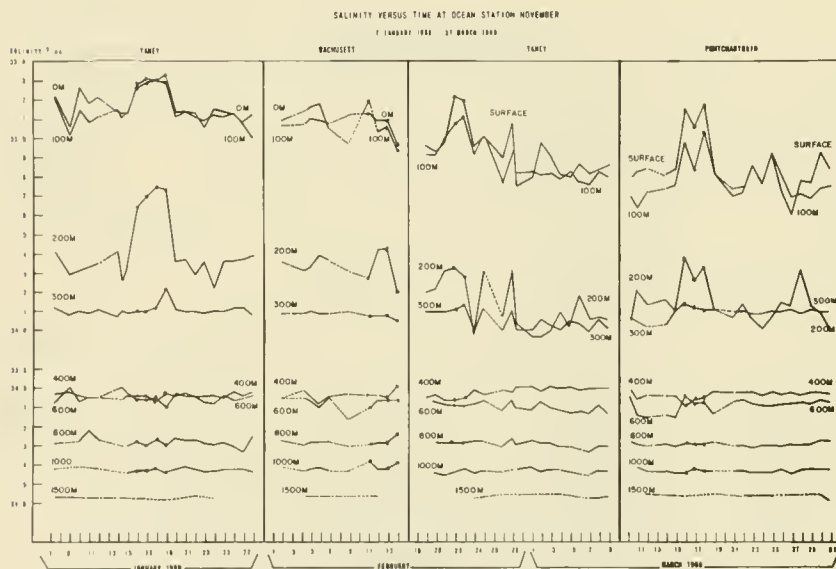


Figure 19.—Salinity versus time at selected depths at Ocean Station NOVEMBER, 7 January-31 March 1968, (Dashed lines indicate data not taken on consecutive days and solid dots indicate data obtained outside normal O.S. grid, see Figures 10-13.)

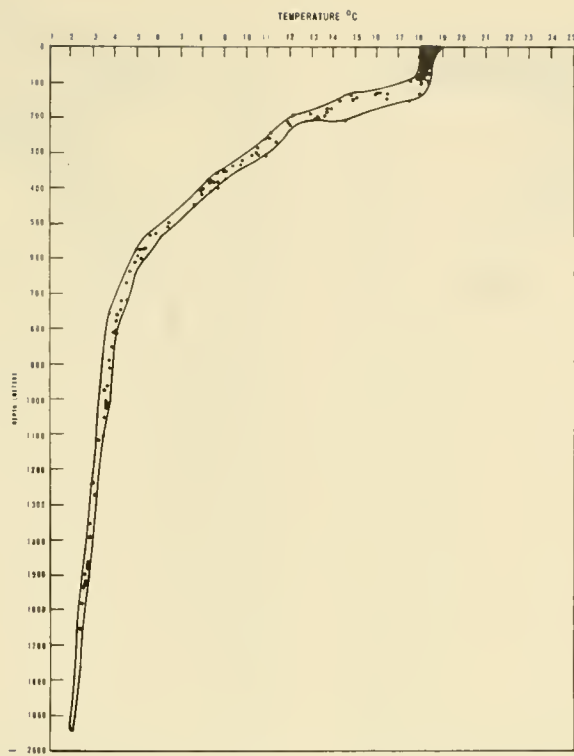


Figure 20.—Envelope of temperature versus depth at oceanographic stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 20 March-8 April 1967.

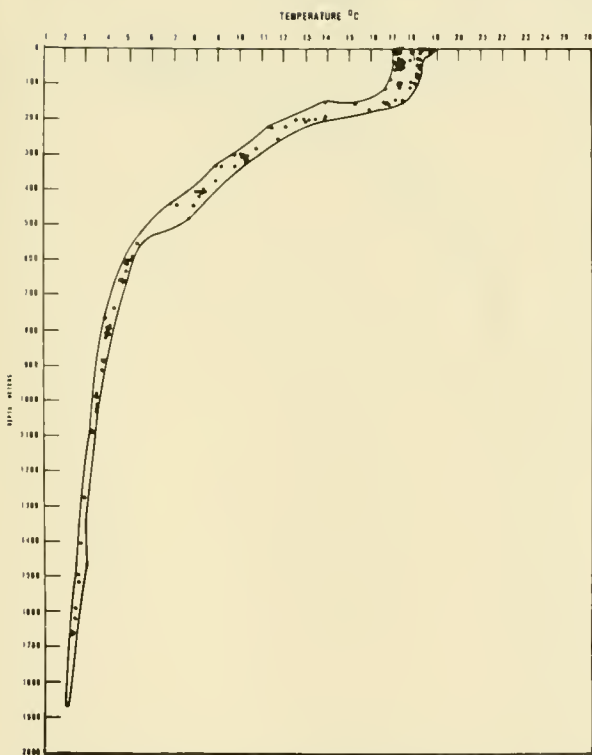


Figure 21.—Envelope of temperature versus depth at oceanographic stations taken by USCGC PONTCHAR-TRAIN at Ocean Station NOVEMBER, 2-19 May 1967.

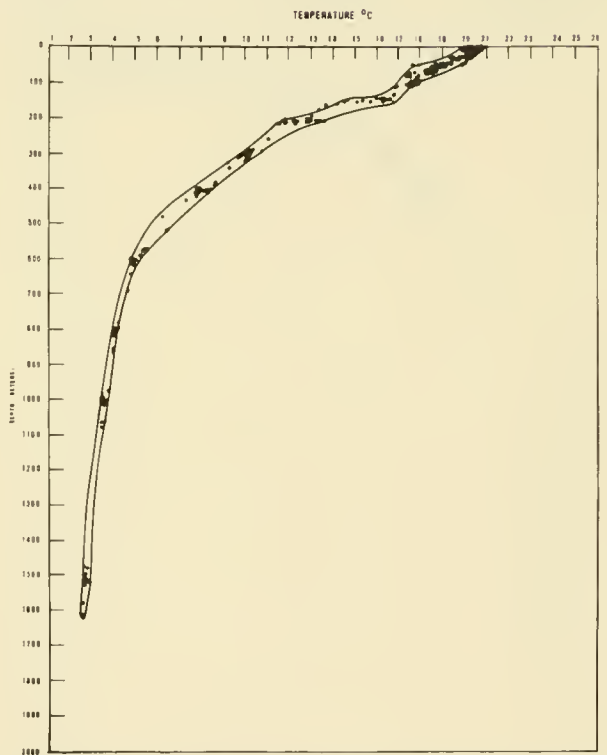


Figure 22.—Envelope of temperature versus depth at oceanographic stations taken by USCGC WINONA at Ocean Station NOVEMBER, 15 June-1 July 1967.

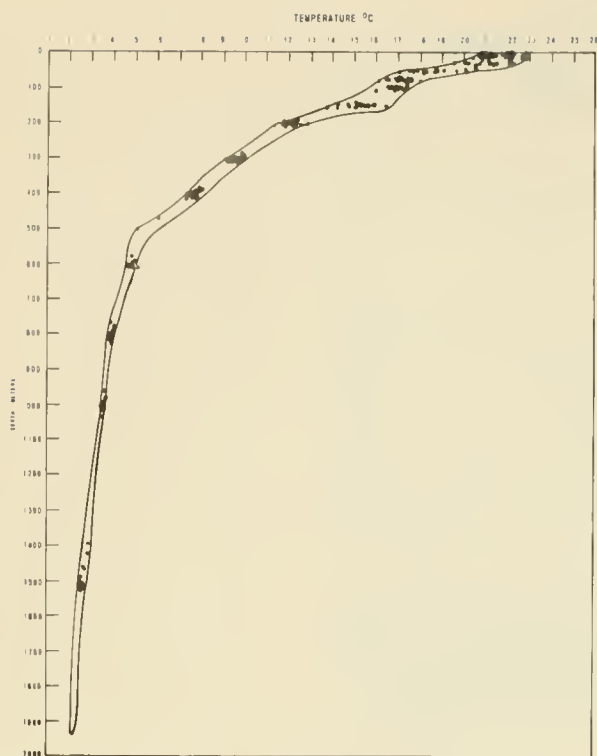


Figure 23.—Envelope of temperature versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 23 July-13 August 1967.

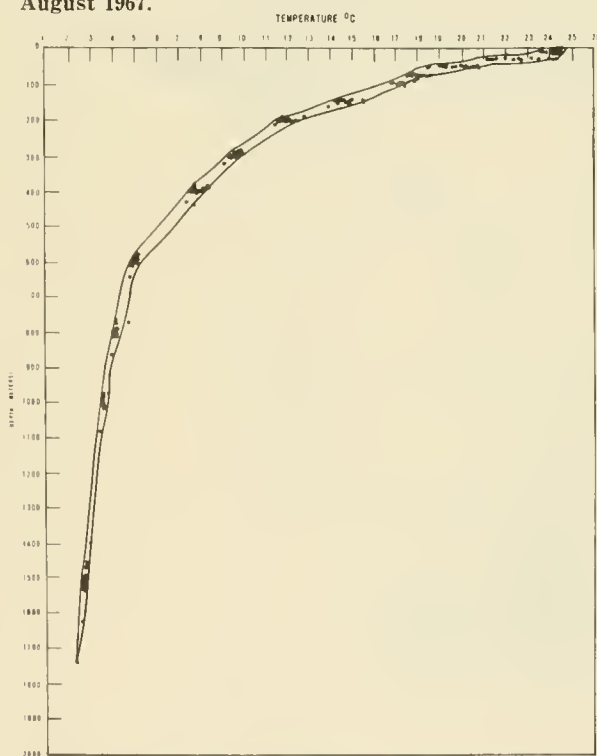


Figure 24.—Envelope of temperature versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 3-24 September 1967.

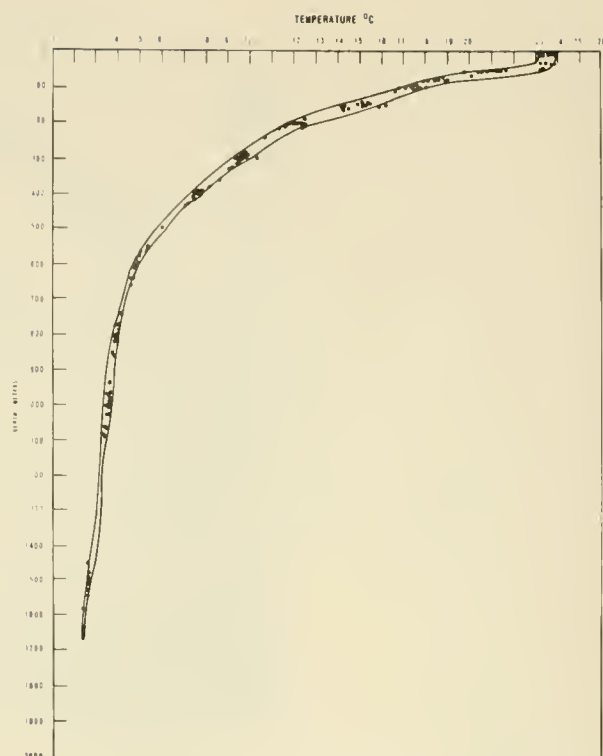


Figure 25.—Envelope of temperature versus depth at oceanographic stations taken by USCGC TANEY at Ocean Station NOVEMBER, 15 October-5 November 1967.

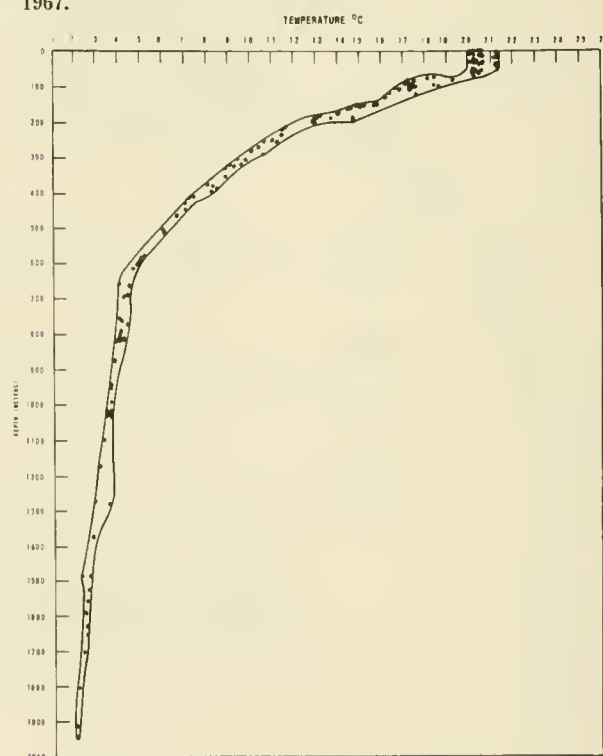


Figure 26.—Envelope of temperature versus depth at oceanographic stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 26 November-17 December 1967.

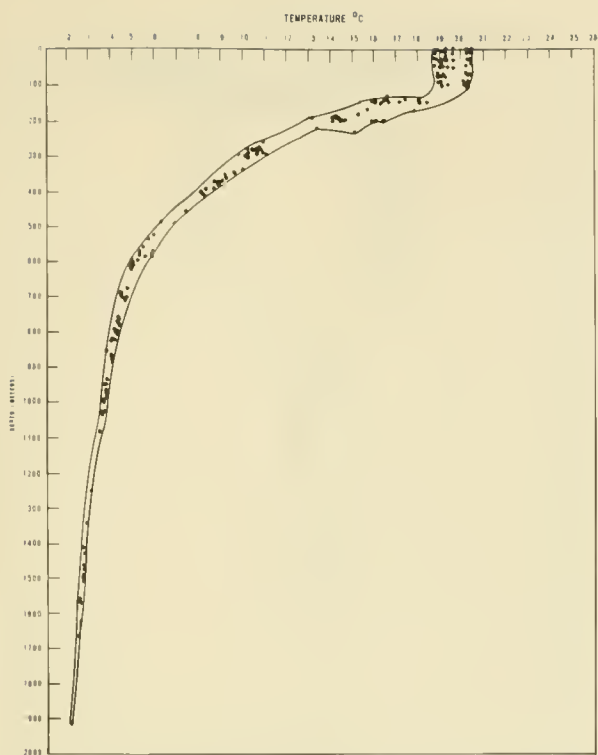


Figure 27.—Envelope of temperature versus depth at oceanographic stations taken by USCGC TANEEY at Ocean Station NOVEMBER, 7-28 January 1968.

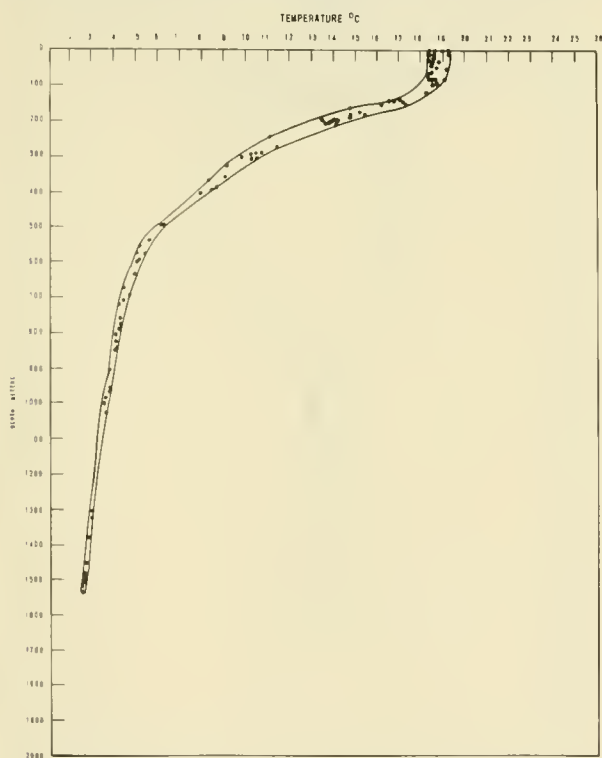


Figure 28.—Envelope of temperature versus depth at oceanographic stations taken by USCGC WACHUSETT at Ocean Station NOVEMBER, 28 January-18 February 1968.

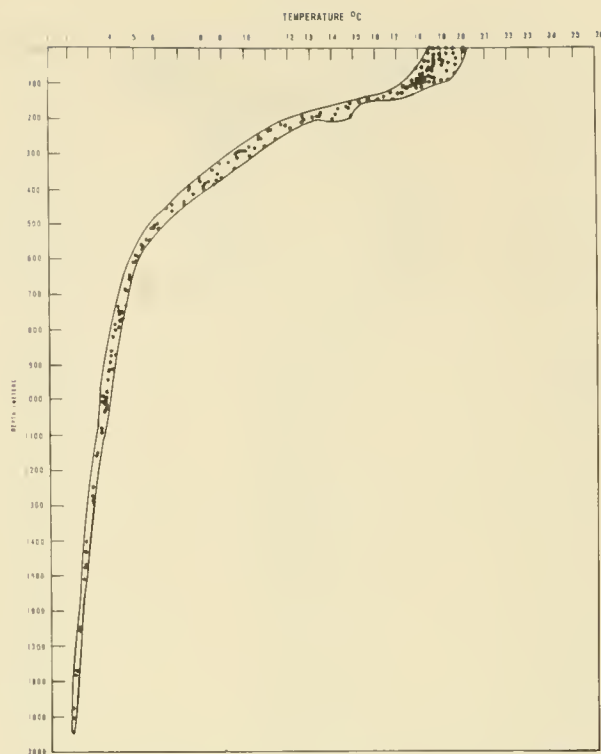


Figure 29.—Envelope of temperature versus depth at oceanographic stations taken by USCGC TANEEY at Ocean Station NOVEMBER, 18 February-10 March 1968.

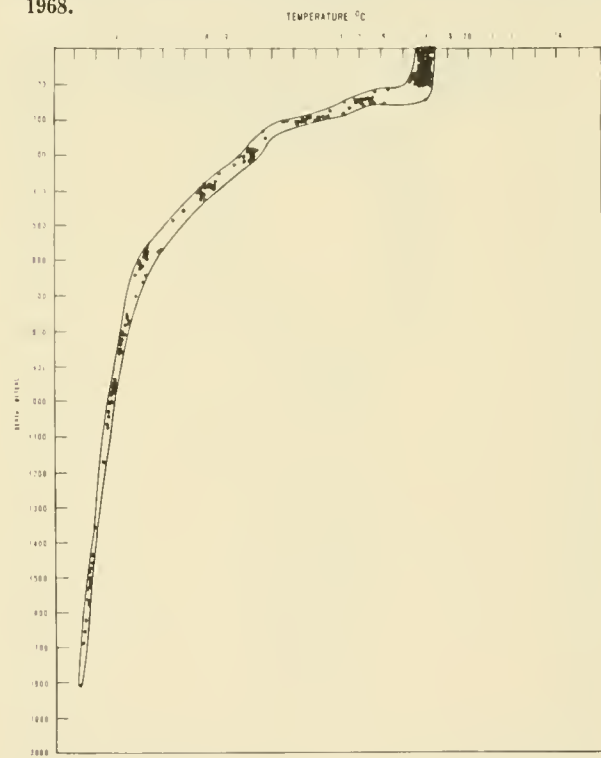


Figure 30.—Envelope of temperature versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 10-31 March 1968.

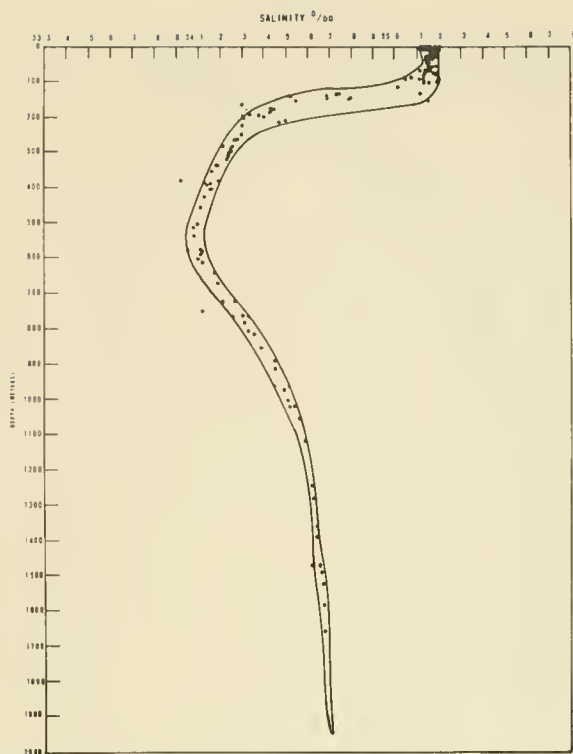


Figure 31.—Envelope of salinity versus depth at oceanographic stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 20 March-8 April 1967.

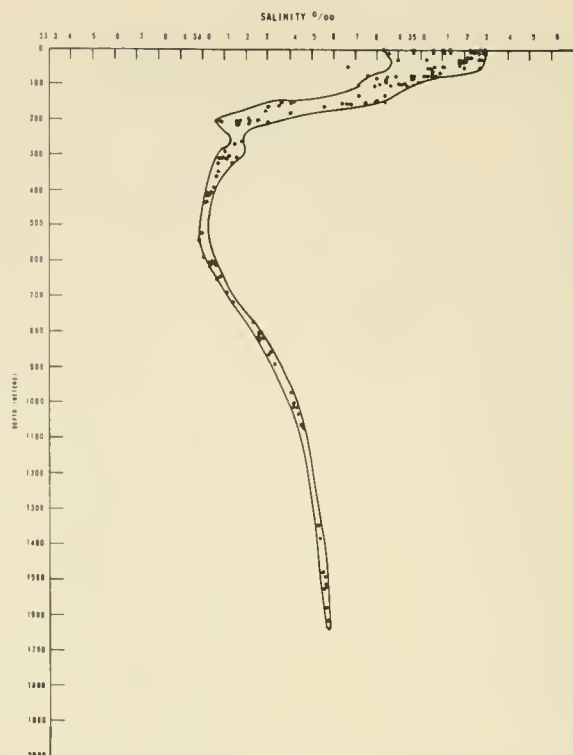


Figure 33.—Envelope of salinity versus depth at oceanographic stations taken by USCGC WINONA at Ocean Station NOVEMBER, 15 June-1 July 1967.

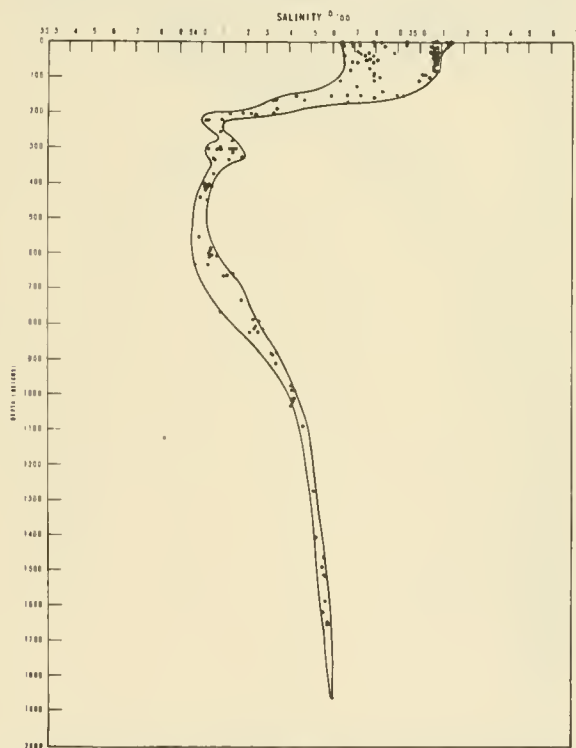


Figure 32.—Envelope of salinity versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 2-19 May 1967.

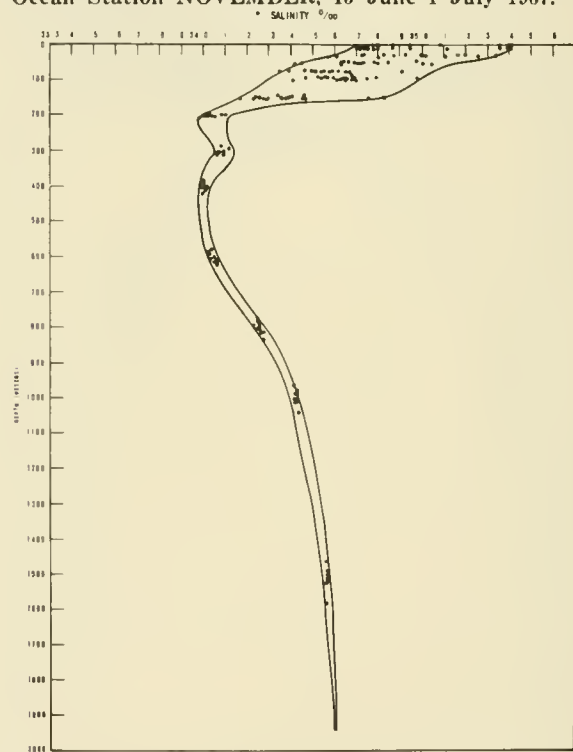


Figure 34.—Envelope of salinity versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 23 July-13 August 1967.

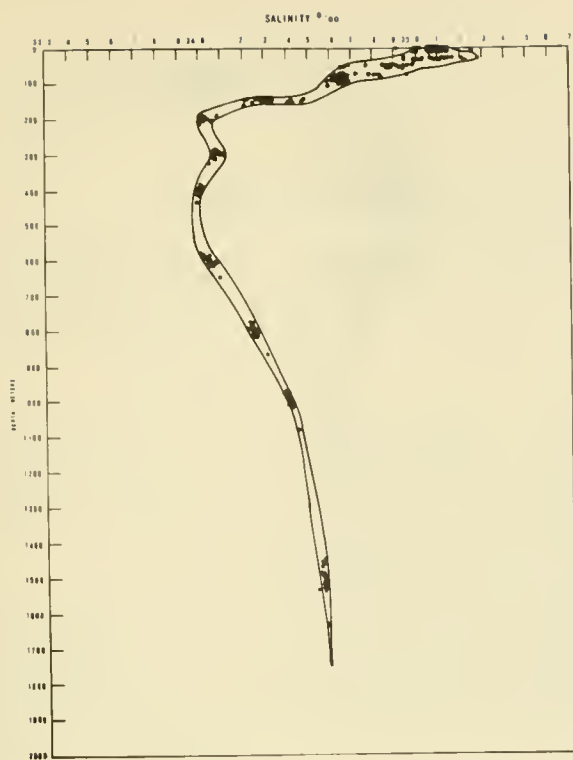


Figure 35.—Envelope of salinity versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 3-24 September 1967.

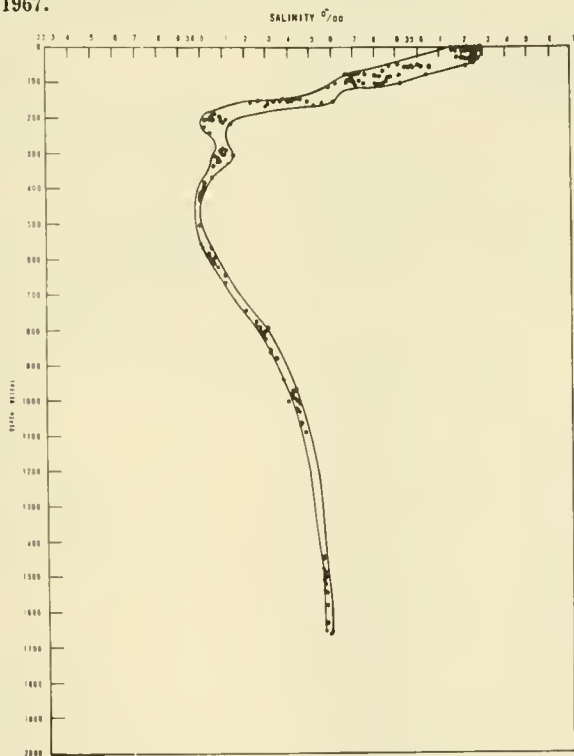


Figure 36.—Envelope of salinity versus depth at oceanographic stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 26 November-17 December 1967.

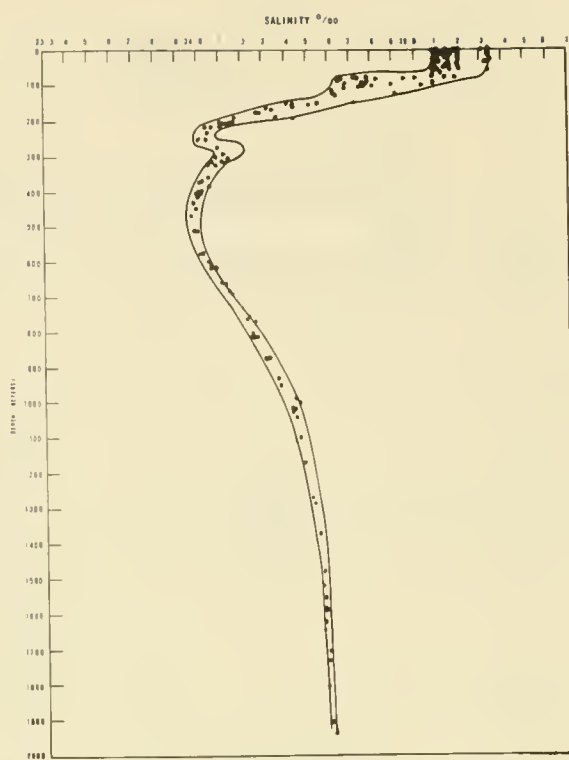


Figure 37.—Envelope of salinity versus depth at oceanographic stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 26 November-17 December 1967.

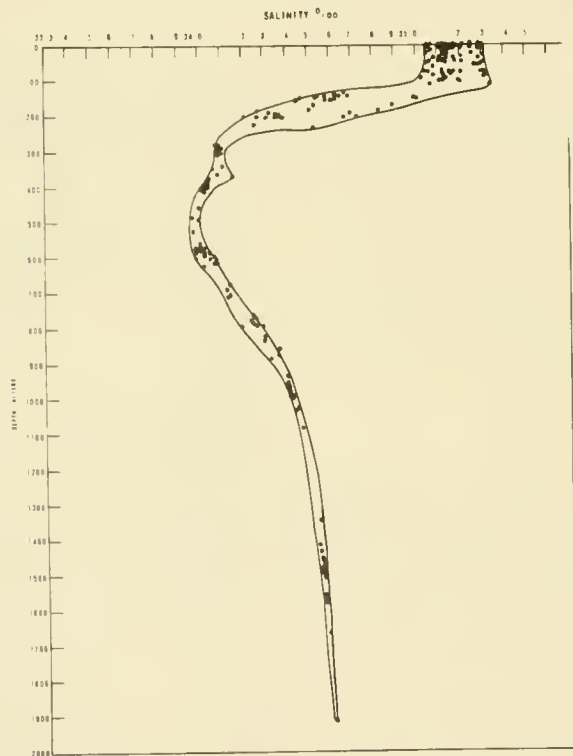


Figure 38.—Envelope of salinity versus depth at oceanographic stations taken by USCGC TANNEY at Ocean Station NOVEMBER, 7-28 January 1968.

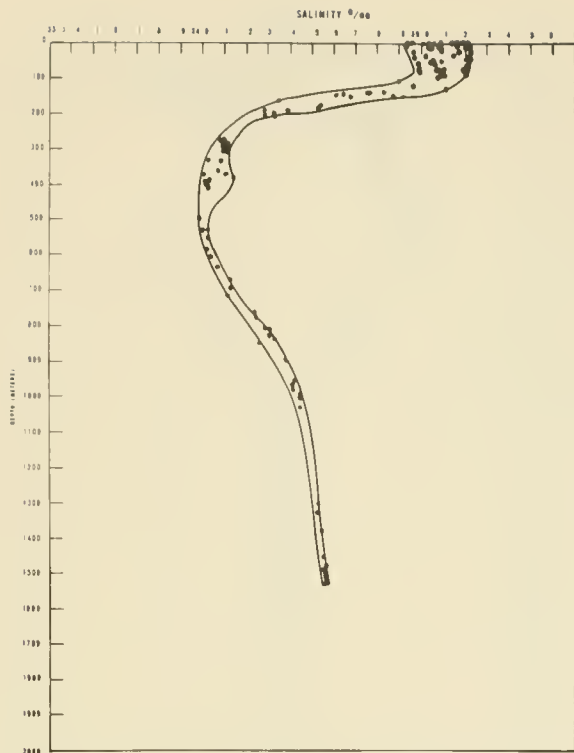


Figure 39.—Envelope of salinity versus depth at oceanographic stations taken by USCGC WACHUSETT at Ocean Station NOVEMBER, 28 January-18 February 1968.

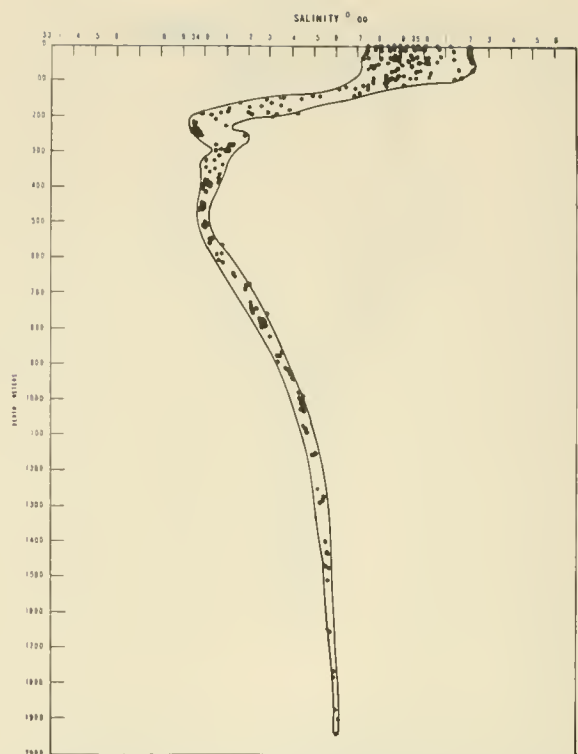


Figure 40.—Envelope of salinity versus depth at oceanographic stations taken by USCGC TANEY at Ocean Station NOVEMBER, 18 February-10 March 1968.

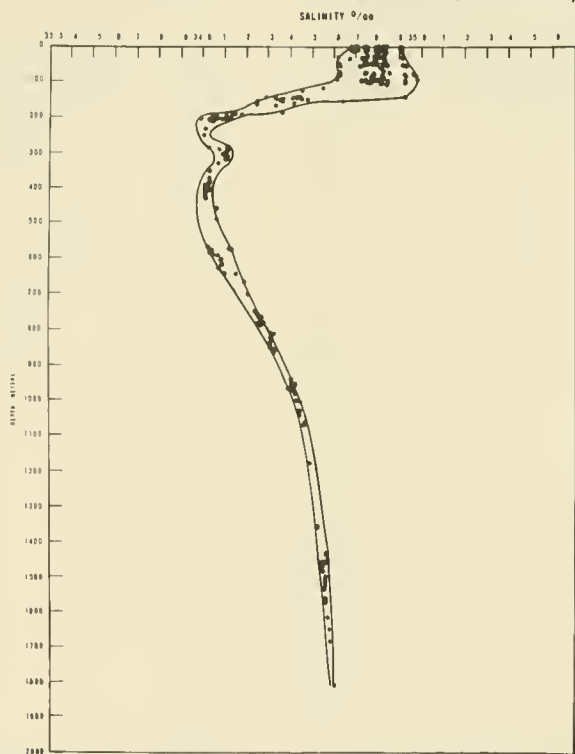


Figure 41.—Envelope of salinity versus depth at oceanographic stations taken by USCGC PONTCHARTRAIN at Ocean Station NOVEMBER, 10-31 March 1968.

Explanation of Oceanographic Station Data

A. Description of Entries, Units and Codes on NODC Station Listing

1. Surface Observations

<i>Entry</i>	<i>Description of Field</i>
NODC REF. ID. NO.	NODC reference identity number.
COUNTRY CODE	Indicates nationality of the institute or agency conducting the survey or expedition.
CRUISE NUMBER	A reference number assigned by NODC for storage-retrieval purposes. NODC Publication C-1, <i>Reference Sources of Oceanographic Station Data</i> , gives complete bibliographic and other pertinent information for each cruise.
SHIP CODE	Alphabetic representation of ship's name (or ICES numeric ship code).
LATITUDE	Degree, minutes, and tenths of minutes, N or S.
LONGITUDE	Degrees, minutes, and tenths of minutes, E or W.
DRIFT INDICATOR	The letter D appears in this column if extensive drift occurred while on station.
MARSDEN SQUARE	
10°	Marsden square number according to the Marsden square system.
1°	The one-degree square number according to the Marsden square system.
STATION TIME (GMT)	Date and time given by the originator (GMT)
MONTH	Month (GMT)
DAY	Day (GMT)
HR. 1/10	GMT to nearest tenth of an hour.
YEAR	Year.
ORIGINATOR'S CRUISE NUMBER	Alphabetic or alpha-numeric designator as assigned by the originator. If the year of the cruise forms part of the cruise numbering system, the year digits are found in preceding field.
STATION NUMBER	Originator's station number or designator.
DEPTH TO BOTTOM	Corrected or uncorrected sounding depth in meters.
MAX. DEPTH OF SAMPLES	Depth of deepest sample in hundreds of meters to nearest hundred-meter interval.
WAVE OBSERVATIONS DIR.	Direction from which the dominant waves are coming, in tens of degrees, according to WMO Code 0885.
HGT.	Height of dominant waves according to WMO Code 1555.
PER.	Period of dominant waves according to WMO Code 3155.
SEA AMT.	Sea amount (sea state) according to WMO Code 3700 (preceded by the letter A).
WEATHER CODE	If preceded by the letter X, weather according to WMO Code 4501. A numeric two-digit entry indicates weather according to WMO Code 4677.
*INSTR./CLOUD	This field is used either for recording instrument code when electronically obtained data are being reported, or for reporting cloud type and cloud amount when conventional Nansen cast data are being reported.
*INSTR.	A two character code representing instrument package of system.
TYPE	Cloud type according to WMO Code 0500.
AMT.	Cloud amount according to WMO Code 2700.
NODC STATION NUMBER	Assigned by NODC for data storage and retrieval purposes. The NODC Reference Identity and Station numbers combined, uniquely define each station in the NODC archives.

*Entry**Description of Field*

*DT/*S ^u /D	This indicator specifies that the reported data have been obtained electronically rather than by Nansen-type casts. U (up) and D (down) are cast indicators for electronically obtained serial data and specify that the data were taken while hoisting or lowering respectively.
WATER COLOR	Water color according to Forel-Ule Code.
TRANS. (m)	Water transparency in meters as determined by Secchi disc.
WIND DIR.	Direction from which wind is blowing in tens of degrees, according to WMO Code 0877.
SPEED OR FORCE	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force in Beaufort code.
BAROMETER (mbs)	Barometric pressure in millibars; tens, units, and tenths places only.
AIR TEMPERATURE °C DRY BULB	Dry bulb air temperature in degrees centigrade, to tenths.
WET BULB	Wet bulb air temperature in degrees centigrade, to tenths.
VIS CODE	Visibility according to WMO Code 4300.
NUMBER OBS, LEVEL	The number of observed levels associated with the station.
SPECIAL OBSERVATIONS	Entries in this space vary with individual cruises or stations. Information concerning entries in this field can be requested from the NODC.

2. A complete description of the codes can be found in NODC publication M-2 (Rev. August 1964), "Processing Physical and Chemical Data from Oceanographic Stations."

TABLE I. Observed and interpolated oceanographic data for stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 20 March-8 April 1967, prepared from NODC Listing No. 31-1079 KL.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG. INDENT	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1079	KL	30015N	140005W		123	00	03	20	190	1967	N05	001	4663	14	24	3	6		X1	8	6	0001
						WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB															
					20	504	230	189	183	8	14												
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C						
		STD	0000	1888	3510	2515	0028242	0000	15191														
190		OBS	0000	1888	35104	2515			15191														
190		OBS	0009	1879	35102	2517			15190														
		STD	0010	1877	3510	2517	0028040	0028	15190														
		STD	0020	1864	3510	2521	0027761	0056	15188														
190		OBS	0027	1857	35097	2522			15187														
		STD	0030	1857	3509	2522	0027700	0084	15187														
190		OBS	0045	1849																			
		STD	0050	1839	3505	2523	0027628	0139	15185														
190		OBS	0068	1809	35013	2528			15179														
		STD	0075	1807	3500	2527	0027317	0208	15179														
190		OBS	0091	1786	34948	2529			15175														
		STD	0100	1750	3487	2531	0027012	0276	15165														
		STD	0125	1648	3469	2542	0026085	0342	15136														
190		OBS	0139	1589	34594	2548			15120														
		STD	0150	1537	3452	2554	0024979	0406	15104														
190		OBS	T0188	1373	34328	2574			15055														
		STD	0200	1327	3431	2582	0022360	0524	15042														
		STD	0250	1154	3423	2610	0019821	0630	14990														
190		OBS	0283	1055	34159	2622			14959														
		STD	0300	1012	3411	2626	0018344	0725	14946														
190		OBS	T0378	0836	33924	2640			14891														
		STD	0400	0803	3394	2646	0016508	0899	14882														
		STD	0500	0668	3399	2669	0014341	1054	14847														
		STD	0600	0557	3404	2687	0012608	1188	14819														
		STD	0700	0472	3410	2701	0011259	1308	14802														
190		OBS	0723	0456	34108	2704			14799														
		STD	0800	0418	3423	2718	0009715	1413	14798														
190		OBS	T0892	0378	34346	2731			14798														
		STD	0900	0375	3435	2732	0008417	1503	14798														
		STD	1000	0340	3439	2738	0007773	1584	14800														
		STD	1100	0313	3443	2744	0007225	1659	14806														
		STD	1200	0294	3448	2749	0006764	1729	14815														
		STD	1300	0284	3452	2754	0006394	1795	14828														
190		OBS	1360	0281	34544	2756			14837														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1079	KL	30035N	13957 W		122	09	03	21	192	1967	N05	002	4389	11	20	3	9		X1	6	7	0002
				WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
							19	S22	183	200	200	7	14										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₂ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	S C				
		STD	0000	1874	3509	2517	0028028		0000		15187												
192		OBS	0000	1874	35087	2517					15187												
192		OBS	0007	1870	35092	2519					15187												
		STD	0010	1870	3509	2518	0027944		0028		15188												
		STD	0020	1868	3509	2519	0027930		0056		15189												
192		OBS	0022	1867	35089	2519					15189												
		STD	0030	1858	3509	2521	0027760		0084		15188												
192		OBS	0037	1852	35081	2522					15187												
		STD	0050	1843	3508	2524	0027506		0139		15186												
192		OBS	0055	1841	35076	2525					15187												
192		OBS	0074	1837	35077	2526					15189												
		STD	0075	1832	3507	2527	0027371		0208		15187												
		STD	0100	1718	3499	2548	0025441		0274		15157												
192		OBS	0119		34918																		
		STD	0125	1608	3482	2561	0024255		0336		15126												
		STD	0150	1501	3448	2559	0024508		0397		15092												
192		OBS	0152	1493	34454	2559					15090												
		STD	0200	1288	3427	2587	0021898		0513		15028												
192		OBS	0226	1201	34200	2599					15002												
		STD	0250	1151	3419	2607	0020061		0618		14988												
		STD	0300	1048	3416	2623	0018615		0714		14960												
192		OBS	0300	1048	34156	2623					14960												
		STD	0400	0853	3405	2647	0016423		0890		14903												
192		OBS	0451	0759	34016	2658					14875												
		STD	0500	0658	3402	2672	0014012		1042		14843												
192		OBS	T0597	0511	34014	2690					14800												
		STD	0600	0509	3401	2691	0012215		1173		14799												
		STD	0700	0448	3402	2698	0011565		1292		14791												
192		OBS	T0751	0422	34017	2700					14788												
		STD	0800	0400	3404	2705	0010914		1404		14788												
		STD	0900	0363	3413	2715	0009902		1508		14790												
		STD	1000	0339	3426	2728	0008739		1601		14798												
		STD	1100	0327	3444	2744	0007341		1682		14812												
192		OBS	1123	0326	34485	2747					14816												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBT. INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
31	1079	KL	30021N	139585W	122	09	03	22	195	1967	N05	003	4206	14	13	4	6		X1	7	6	0003				
						WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
								31	S14	200	172	156	8	14												
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C									
		STD	0000	1858	3507	2520	0027760	0000	15182																	
	195	OBS	0000	1858	35071	2520			15182																	
	195	OBS	0008	1854	35073	2521			15183																	
		STD	0010	1854	3507	2521	0027684	0028	15183																	
		STD	0020	1852	3507	2522	0027685	0055	15184																	
	195	OBS	0029	1848	35070	2522			15184																	
		STD	0030	1847	3507	2523	0027606	0083	15184																	
	195	OBS	0044	1838	35063	2524			15184																	
		STD	0050	1837	3506	2525	0027496	0138	15184																	
	195	OBS	0068	1832	35050	2525			15186																	
		STD	0075	1824	3503	2525	0027501	0207	15185																	
	195	OBS	0088	1799	34979	2528			15179																	
		STD	0100	1747	3488	2533	0026870	0275	15164																	
		STD	0125	1634	3469	2545	0025774	0341	15132																	
	195	OBS	0133	1596	34630	2549			15121																	
		STD	0150	1505	3450	2559	0024447	0403	15094																	
	195	OBS	0177	1377	34346	2575			15055																	
		STD	0200	1294	3430	2588	0021794	0519	15031																	
		STD	0250	1134	3420	2611	0019683	0623	14982																	
	195	OBS	0267	1087	34176	2618			14968																	
		STD	0300	1014	3413	2627	0018230	0718	14947																	
	195	OBS	0357	0893	34064	2642			14911																	
		STD	0400	0796	3405	2655	0015600	0887	14881																	
		STD	0500	0612	3400	2677	0013508	1032	14824																	
	195	OBS	0540	0556	33982	2682			14808																	
		STD	0600	0503	3404	2693	0011948	1159	14797																	
		STD	0700	0436	3414	2709	0010504	1272	14787																	
	195	OBS	T0727	0422	34167	2712			14786																	
		STD	0800	0405	3425	2721	0009415	1371	14792																	
		STD	0900	0381	3434	2730	0008553	1461	14800																	
	195	OBS	T0915	0378	34350	2731			14802																	
		STD	1000	0359	3441	2738	0007859	1543	14809																	
		STD	1100	0338	3447	2745	0007246	1619	14817																	
		STD	1200	0317	3451	2750	0006777	1689	14825																	
		STD	1300	0297	3453	2753	0006463	1755	14834																	
	195	OBS	1395	0279	34539	2756			14842																	

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MO	DAY	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER			
CTRY CODE	IO. NO.				10'	1"	MO	DAY	HR,1/10	CRUISE NO.	STATION NUMBER						TYPE	AMT			
311079	KL	30015N	140000W	123	00	03	23	005	1967	N05	004	4572	16	35	4	4		X1	6 5	0004	
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
				03	S12	254		189	183	8		14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S CLO
		STD	0000	1862	3508	2520		0027798		0000		15184									
005		OBS	0000	1862	35079	2520						15184									
		STD	0010	1852	3508	2522		0027607		0028		15182									
005		OBS	0010	1852	35077	2522						15182									
		STD	0020	1847	3507	2523		0027572		0055		15183									
		STD	0030	1843	3506	2523		0027562		0083		15183									
005		OBS	0034	1842	35060	2523						15183									
		STD	0050	1841	3506	2524		0027589		0138		15186									
005		OBS	0054	1839	35063	2524						15186									
		STD	0075	1814	3504	2529		0027191		0206		15182									
005		OBS	0084	1808	35036	2530						15181									
		STD	0100	1805	3504	2531		0027093		0274		15183									
005		OBS	0109	1804	35038	2531						15184									
		STD	0125	1680	3491	2551		0025203		0340		15149									
		STD	0150	1508	3473	2576		0022833		0400		15098									
005		OBS	0163	1430	34200	25530															
		STD	0200	1253	3445	2608		0019914		0507		15019									
005		OBS	T0217	1186	34371	2615						14997									
		STD	0250	1122	3428	2619		0018882		0604		14979									
		STD	0300	1027	3417	2628		0018155		0696		14952									
005		OBS	0323	0983	34134	2632						14939									
		STD	0400	0838	3405	2649		0016194		0868		14897									
005		OBS	T0428	0788	34028	2655						14882									
		STD	0500	0653	3404	2675		0013744		1018		14841									
		STD	0600	0511	3406	2694		0011891		1146		14801									
005		OBS	0641	0468	34069	2700						14790									
		STD	0700	0441	3414	2708		0010563		1258		14789									
		STD	0800	0403	3424	2720		0009466		1358		14792									
005		OBS	T0854	0386	34292	2726						14794									
		STD	0900	0376	3434	2731		0008495		1448		14798									
		STD	1000	0356	3442	2739		0007750		1529		14807									
005		OBS	T1059	0344	34459	2743						14813									
		STD	1100	0336	3447	2745		0007230		1604		14816									
		STD	1200	0316	3449	2749		0006898		1675		14825									
		STD	1300	0298	3452	2752		0006578		1742		14834									
		STD	1400	0279	3454	2756		0006241		1806		14843									
		STD	1500	0261	3456	2759		0005918		1867		14853									
005		OBS	1584	0247	34583	2762						14861									

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICAT	MARSSEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S			DEPTH BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLDUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR	HGT			PER	SEA	TYPE	AMT				
31	1079	KL	28320N	140020W		087	80	03	24	195	1967		N05	005	4663	11	31	4	2		X1	6	4	0005	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	METER (mb)		DRY BULB	WET BULB																
						08	S19	237	189	178	8	13													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiD ₄ -Si µg - ml/l	pH	S NO								
		STD	0000	1976	3519	2499	0029763	0000	15217																
195		OBS	0000	1976	35192	2499			15217																
		STD	0010	1969	3519	2501	0029624	0030	15217																
195		OBS	0010	1969	35192	2501			15217																
		STD	0020	1967	3519	2501	0029614	0059	15218																
		STD	0030	1965	3519	2502	0029607	0089	15219																
195		OBS	0031		35190																				
195		OBS	0047	19810	35191	24980																			
		STD	0050	1961	3519	2503	0029575	0148	15221																
195		OBS	0073	1956	35173	2503			15223																
		STD	0075	1937	3517	2507	0029219	0222	15218																
195		OBS	0094	1790	35165	2544			15179																
		STD	0100	1781	3515	2545	0025700	0290	15178																
		STD	0125	1733	3505	2549	0025393	0354	15166																
195		OBS	0138	1702	34986	2552			15158																
		STD	0150	1642	3491	2560	0024429	0416	15141																
195		OBS	0185		34680																				
		STD	0200	1413	3454	2582	0022393	0533	15073																
		STD	0250	1215	3420	2596	0021157	0642	15011																
195		OBS	0272	1138	34098	2602			14986																
		STD	0300	1052	3407	2616	0019316	0744	14960																
195		OBS	T0362	0884	34034	2641			14908																
		STD	0400	0803	3404	2654	0015755	0919	14883																
		STD	0500	0635	3405	2678	0013443	1065	14834																
195		OBS	0534	0592	34054	2684			14823																
		STD	0600	0549	3414	2696	0011780	1191	14817																
		STD	0700	0491	3425	2711	0010335	1302	14812																
195		OBS	T0700	0491	34252	2711			14812																
		STD	0800	0442	3435	2725	0009112	1399	14809																
		STD	0900	0403	3442	2734	0008219	1485	14811																
		STD	1000	0373	3447	2741	0007579	1564	14815																
		STD	1100	0352	3451	2747	0007114	1638	14824																
195		OBS	T1113	0350	34512	2747			14825																

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUA RE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10°	1°	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
31	1079	KL	30020N	140015W	123	00	03	25	197	1967	N05	006	4389	15	13	3	4		X6	6	8		0006
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						CDLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mbs)	DRY BULB	WET BULB											
													25										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-A10°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
		STD	0000	1832	3502	2523	0027511	0000	15174														
197		OBS	0000	1832	35020	2523			15174														
197		OBS	0009	1830	35027	2524			15175														
		STD	0010	1830	3503	2524	0027437	0027	15176														
		STD	0020	1829	3504	2525	0027384	0055	15177														
		STD	0030	1828	3505	2526	0027324	0082	15179														
197		OBS	0031	1828	35048	2526			15179														
197		OBS	0049	1829	35063	2527			15182														
		STD	0050	1829	3506	2526	0027318	0137	15182														
		STD	0075	1807	3503	2529	0027121	0205	15180														
197		OBS	0075	1807	35027	2529			15180														
197		OBS	0097	1756	35009	2541			15168														
		STD	0100	1740	3499	2542	0025982	0271	15163														
		STD	0125	1612	3476	2555	0024780	0335	15175														
197		OBS	0145	1514	34590	2564			15097														
		STD	0150	1489	3455	2567	0023746	0395	15089														
197		OBS	0193	1296	34242	2583			15029														
		STD	0200	1283	3423	2585	0022095	0510	15026														
		STD	0250	1180	3417	2600	0020733	0617	14998														
		STD	0300	1066	3411	2616	0019262	0717	14965														
197		OBS	0333	0984	34082	2628			14941														
197		OBS	0390	0831	34039	2649			14892														
		STD	0400	0807	3404	2653	0015815	0892	14885														
		STD	0500	0609	3403	2680	0013247	1038	14824														
197		OBS	0580	0498	34023	2693			14792														
		STD	0600	0486	3405	2696	0011668	1162	14790														
		STD	0700	0433	3416	2711	0010320	1272	14786														
197		OBS	0766	0407	34228	2719			14787														
		STD	0800	0400	3426	2722	0009283	1370	14791														
		STD	0900	0379	3436	2732	0008382	1459	14800														
197		OBS	0964	0366	34406	2737			14805														
		STD	1000	0359	3442	2739	0007807	1540	14809														
		STD	1100	0339	3445	2743	0007428	1616	14817														
		STD	1200	0320	3448	2747	0007055	1688	14826														
		STD	1300	0301	3451	2751	0006671	1757	14835														
		STD	1400	0283	3454	2755	0006302	1822	14845														
197		OBS	1470	0270	34559	2758			14851														

TABLE I.—Continued

MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %..	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ^*_T	$\Sigma \Delta D$ OVR. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH
		STD	0000	1807	3506	2532	0026653	0000	15168							
201		OBS	0000	1807	35057	2532			15168							
		STD	0010	1807	3506	2532	0026664	0027	15169							
201		OBS	0016	1807	35067	2532			15170							
		STD	0020	1807	3507	2532	0026649	0053	15171							
		STD	0030	1806	3506	2532	0026688	0080	15172							
201		OBS	0041	1806	35062	2532			15174							
		STD	0050	1808	3507	2532	0026785	0133	15176							
201		OBS	0066	1811	35070	2532			15180							
		STD	0075	1811	3507	2532	0026898	0201	15181							
		STD	0100	1809	3507	2532	0026977	0268	15185							
201		OBS	0102	1809	35065	2532			15185							
		STD	0125	1669	3475	2541	0026118	0334	15144							
201		OBS	0134	1618	34650	2546			15128							
		STD	0150	1546	3454	2553	0025025	0398	15107							
		STD	0200	1324	3430	2582	0022375	0517	15041							
201		OBS	0200	1324	34300	2582			15041							
201		OBS	T0248	1118	34195	2614			14976							
		STD	0250	1115	3419	2614	0019419	0621	14976							
		STD	0300	1040	3415	2624	0018523	0716	14957							
201		OBS	0380	0902	34091	2642			14918							
		STD	0400	0856	3407	2648	0016322	0890	14904							
		STD	0500	0655	3400	2671	0014082	1042	14842							
201		OBS	T0503	0650	33998	2672			14840							
		STD	0600	0517	3407	2694	0011898	1172	14803							
		STD	0700	0417	3415	2711	0010209	1283	14780							
201		OBS	0762	0375	34204	2720			14773							
		STD	0800	0375	3424	2723	0009145	1379	14780							
		STD	0900	0372	3434	2731	0008449	1467	14796							
		STD	1000	0363	3441	2738	0007905	1549	14810							
201		OBS	T1021	0360	34423	2739			14813							
		STD	1100	0341	3446	2744	0007355	1626	14818							
		STD	1200	0319	3450	2749	0006874	1697	14826							
201		OBS	1280	0303	34527	2753			14833							
		STD	1300	0299	3453	2753	0006486	1763	14835							
		STD	1400	0280	3454	2756	0006223	1827	14844							
		STD	1500	0263	3456	2759	0005986	1888	14853							
		STD	1750	0228	3459	2764	0005444	2031	14881							
201		OBS	1945	0207	34619	2768			14905							

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
31	1079	KL	3000 N	14000 W		123	00	03	30	189	1967	N05	008	4572	15	04	4	5		X2	6	8	0008
						WATER		WIND		BARO- METER (mbars)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									03	S08	280	172	144	8	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S CC						
		STD	0000	1806	3505	2531	0026673	0000	15167														
189	OBS	0000	1806	35051	2531				15167														
189	OBS	0009	1806	35049	2531				15169														
	STD	0010	1806	3505	2531	0026721	0027		15169														
	STD	0020	1806	3505	2531	0026783	0053		15171														
189	OBS	0027	17970	35044	25330																		
	STD	0030	1807	3505	2531	0026831	0080		15172														
189	OBS	0045	1807	35048	2531				15175														
	STD	0050	1807	3505	2531	0026897	0134		15176														
189	OBS	0068	1808	35044	2530				15179														
	STD	0075	1807	3504	2530	0027021	0201		15180														
189	OBS	0091	1806	35037	2530				15182														
	STD	0100	1736	3490	2537	0026471	0268		15161														
	STD	0125	1562	3457	2552	0025076	0333		15109														
189	OBS	0140	1472	34424	2561				15081														
	STD	0150	1422	3438	2568	0023606	0394		15066														
189	OBS	T0198	1220	34204	2595				15004														
	STD	0200	1215	3420	2596	0021036	0505		15002														
	STD	0250	1099	3418	2616	0019212	0606		14970														
189	OBS	0292	1011	34146	2629				14945														
	STD	0300	0997	3414	2631	0017873	0698		14941														
189	OBS	T0388	0846	34051	2648				14898														
	STD	0400	0818	3405	2652	0015906	0867		14889														
	STD	0500	0622	3403	2678	0013448	1014		14829														
189	OBS	0576	0515	34009	2689				14798														
	STD	0600	0499	3403	2693	0011974	1141		14795														
	STD	0700	0443	3413	2707	0010660	1254		14790														
189	OBS	T0782	0408	34214	2718				14790														
	STD	0800	0404	3423	2719	0009552	1355		14792														
	STD	0900	0384	3433	2729	0008662	1447		14801														
189	OBS	0973	0369	34392	2736				14808														
	STD	1000	0364	3441	2738	0007917	1529		14811														
	STD	1100	0344	3447	2744	0007316	1606		14820														
	STD	1200	0324	3452	2750	0006785	1676		14829														
	STD	1300	0304	3455	2754	0006397	1742		14837														
	STD	1400	0285	3455	2756	0006237	1805		14846														
189	OBS	T1472	0271	34550	2757				14852														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1079	KL	3000 N	14000 W		123	00	03	31	191	1967	N05	009	4389	12	03	1	2		X9	7	5	0009
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB											
								03	S12	261		178		167	8	14							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C					
		STD	0000	1807	3505	2531	0026733		0000	15168													
191		OBS	0000	1807	35046	2531				15168													
191		OBS	0008	1807	35045	2531				15169													
		STD	0010	1807	3505	2531	0026771		0027	15169													
		STD	0020	1806	3505	2531	0026783		0054	15171													
191		OBS	0026	1806	35046	2531				15171													
		STD	0030	1807	3505	2531	0026825		0080	15172													
191		OBS	0044	1809	35049	2531				15175													
		STD	0050	1808	3505	2531	0026916		0134	15176													
191		OBS	0065	1807	35042	2531				15178													
		STD	0075	1808	3504	2530	0027023		0201	15180													
191		OBS	0084	1808	35042	2530				15181													
		STD	0100	1804	3504	2531	0027068		0269	15183													
		STD	0125	1797	3502	2532	0027070		0337	15185													
191		OBS	0132	1795	35021	2532				15185													
		STD	0150	1616	3469	2549	0025453		0402	15131													
191		OBS	T0177	1399	34330	2569				15062													
		STD	0200	1310	3428	2583	0022249		0522	15036													
		STD	0250	1145	3419	2608	0019953		0627	14986													
191		OBS	0261	1113	34169	2613				14976													
		STD	0300	1023	3412	2625	0018455		0723	14950													
191		OBS	T0339	0940	34086	2636				14926													
		STD	0400	0825	3405	2651	0015997		0895	14892													
		STD	0500	0661	3399	2670	0014231		1047	14844													
191		OBS	0512	0644	33984	2672				14839													
		STD	0600	0524	3403	2690	0012281		1179	14806													
191		OBS	T0674	0453	34089	2703				14789													
		STD	0700	0443	3412	2706	0010735		1294	14790													
		STD	0800	0408	3423	2719	0009598		1396	14793													
191		OBS	T0856	0390	34284	2725				14796													
		STD	0900	0377	3432	2729	0008655		1487	14798													
		STD	1000	0349	3440	2738	0007817		1570	14804													
		STD	1100	0325	3446	2745	0007170		1644	14811													
		STD	1200	0305	3451	2751	0006639		1714	14820													
191		OBS	T1243	0298	34521	2753				14825													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1079	KL	30009N	140017W		123	00	04	01	004	1967	N05	010	4389	38	03	3	4		X2	6	8	0010
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB											
								01	S16	227		183		156	06								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C					
004		OBS	T1660	0240	34584	2763				14868													
		STD	1750	0229	3459	2764	0005470			14879													
		STD	2000	0202	3461	2768	0005108			14910													
004		OBS	T2148	0189	34623	2770				14929													
		STD	2500	0171	3464	2773	0004685			14982													
004		OBS	T2619	0166	34649	2774				15000													
		STD	3000	0155	3466	2776	0004481			15062													
004		OBS	3097	0153	34666	2776				15078													
004		OBS	3566	0149	34676	2777				15158													
004		OBS	T3778	0149	34681	2778				15195													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
31	1079	KL	30001N	14001 W		123	00	04	02	003	1967	N05	011	2018	15	06	6	8		X1	7	5	0011		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR	TRANS. 1ml	DIR.	SPEED OR FORCE		DRY BULB	WET BULB					05 <td>S25</td> <td>240</td> <td>161</td> <td>144</td> <td>8</td> <td>14</td> <th colspan="7"></th>	S25	240	161	144	8	14		
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH Iml	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t °		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C							
		STD	0000	1836	3507	2526	0027214		0000	15176															
003		OBS	0000	1836	35074	2526				15176															
003		OBS	0009	1834	35076	2526				15177															
		STD	0010	1834	3508	2526	0027183		0027	15177															
		STD	0020	1833	3507	2527	0027206		0054	15178															
		STD	0030	1831	3507	2527	0027235		0082	15180															
003		OBS	0031	1831	35069	2527				15180															
003		OBS	0048	1833	35071	2526				15183															
		STD	0050	1830	3507	2527	0027269		0136	15183															
003		OBS	0074	1808	35038	2530				15180															
		STD	0075	1808	3504	2530	0027064		0204	15180															
003		OBS	0096	1808	35035	2530				15183															
		STD	0100	1799	3501	2530	0027138		0272	15181															
		STD	0125	1727	3484	2535	0026781		0339	15162															
003		OBS	0144	1651	34704	2542				15141															
		STD	0150	1612	3464	2546	0025729		0405	15129															
003		OBS	T0195	1357	34276	2574				15051															
		STD	0200	1337	3426	2576	0022921		0526	15045															
		STD	0250	1162	3416	2603	0020479		0635	14992															
003		OBS	0287	1055	34108	2618				14959															
		STD	0300	1030	3410	2622	0018721		0733	14952															
003		OBS	T0385	0868	34026	2643				14905															
		STD	0400	0834	3402	2647	0016354		0908	14895															
		STD	0500	0639	3398	2672	0014000		1060	14835															
003		OBS	0575	0532	33953	2683				14804															
		STD	0600	0512	3398	2688	0012504		1193	14800															
		STD	0700	0446	3409	2704	0010993		1310	14791															
003		OBS	T0768	0412	34162	2713				14789															
		STD	0800	0404	3420	2717	0009774		1414	14791															
		STD	0900	0362	3429	2726	0008935		1507	14800															
003		OBS	0966	0367	34347	2732				14805															
		STD	1000	0360	3436	2734	0008255		1593	14808															
		STD	1100	0339	3439	2738	0007841		1674	14816															
		STD	1200	0318	3443	2743	0007416		1750	14825															
		STD	1300	0299	3446	2748	0007016		1822	14834															
		STD	1400	0281	3449	2752	0006624		1891	14843															
003		OBS	T1484	0266	34519	2755				14851															

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGH		PER	SEA		TYPE	AMT			
31	1079	KL	2828 N	14000 W		087	80	04	03	202	1967	N05	012		4663	14	04	4	3		X1	6	6			0012
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB															
										36	S12	254	167					156	7	14						
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	Si O ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C									
		STD	0000	1904	3511	2511	0028608	0000	15196																	
202		OBS	0000	1904	35107	2511			15196																	
202		OBS	0009	1897	35108	2513			15195																	
		STD	0010	1897	3511	2513	0028465	0029	15196																	
		STD	0020	1898	3511	2513	0028519	0057	15197																	
		STD	0030	1898	3511	2513	0028580	0086	15199																	
202		OBS	0030	1898	35105	2513			15199																	
202		OBS	0046	1901	35106	2512			15203																	
		STD	0050	1901	3511	2512	0028710	0143	15203																	
202		OBS	0071	1900	35106	2512			15206																	
		STD	0075	1901	3511	2512	0028800	0415	15207																	
202		OBS	0091	1903	35106	2511			15211																	
		STD	0100	1903	3511	2511	0028925	0287	15212																	
		STD	0125	1902	3511	2512	0028984	0359	15216																	
202		OBS	0136	1901	35106	2512			15217																	
		STD	0150	1824	3501	2524	0027896	0430	15197																	
202		OBS	0198	1574	34681	2558			15126																	
		STD	0200	1564	3466	2559	0024687	0562	15123																	
		STD	0250	1324	3423	2577	0023016	0681	15048																	
202		OBS	0271	1235	34116	2586			15020																	
		STD	0300	1126	3408	2603	0020535	0790	14986																	
202		OBS	T0360	0933	34020	2632			14926																	
		STD	0400	0843	3401	2646	0016543	0975	14898																	
		STD	0500	0662	3400	2670	0014207	1129	14844																	
202		OBS	0525	0627	33992	2674			14834																	
		STD	0600	0559	3408	2690	0012352	1262	14821																	
202		OBS	T0692	0494	34170	2705			14810																	
		STD	0700	0491	3418	2706	0010868	1378	14811																	
		STD	0800	0456	3427	2717	0009874	1482	14814																	
202		OBS	0885	0428	34334	2725			14817																	
		STD	0900	0423	3434	2726	0009057	1576	14818																	
		STD	1000	0394	3437	2732	0008552	1664	14823																	
		STD	1100	0368	3441	2737	0008072	1748	14829																	
		STD	1200	0345	3444	2742	0007630	1826	14836																	
		STD	1300	0324	3447	2746	0007208	1900	14845																	
		STD	1400	0307	3451	2751	0006829	1970	14855																	
202		OBS	T1402	0307	34506	2751			14855																	

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPL	AMT	
31	1079	KL	2820 N	14002 W	087	80	04	04	190	1967	N05	013	4114	15	04	3	2		X1	6	5		0013
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. m1	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								02		516	247	183	161	8	14								
MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	1909	3515	2513	0028414	0000	15198														
190		OBS	0000	1909	35151	2513			15198														
190		OBS	0008	1902	35147	2515			15197														
		STD	0010	1902	3515	2515	0028282	0029	15197														
		STD	0020	1900	3515	2515	0028266	0057	15199														
		STD	0030	1899	3515	2515	0028282	0085	15200														
190		OBS	0031	1899	35146	2515			15200														
190		OBS	0049	1902	35148	2515			15204														
		STD	0050	1902	3515	2515	0028420	0141	15204														
		STD	0075	1900	3515	2515	0028456	0213	15208														
190		OBS	0075	1900	35148	2515			15208														
190		OBS	0098	1895	35147	2516			15210														
		STD	0100	1895	3515	2517	0028425	0284	15210														
		STD	0125	1888	3513	2517	0028480	0355	15212														
190		OBS	0145	1883	35118	2517			15214														
		STD	0150	1856	3506	2520	0028302	0427	15206														
		STD	0200	1579	3455	2547	0025814	0562	15126														
190		OBS	T0201	1573	34546	2548			15124														
		STD	0250	1225	3424	2597	0021053	0679	15015														
190		OBS	0293	1007	34068	2623			14942														
		STD	0300	0990	3406	2626	0018348	0777	14937														
190		OBS	T0396	0813	34019	2651			14886														
		STD	0400	0810	3402	2651	0015994	0949	14887														
		STD	0500	0742	3409	2666	0014636	1102	14878														
		STD	0600	0674	3416	2681	0013301	1241	14868														
		STD	0700	0605	3423	2696	0011974	1368	14857														
		STD	0800	0537	3430	2710	0010672	1481	14847														
		STD	0900	0468	3437	2723	0009385	1581	14836														
		STD	1000	0400	3444	2736	0008150	1669	14826														
190		OBS	1000	0400	34437	2736			14826														
		STD	1100	0368	3446	2741	0007676	1748	14828														
		STD	1200	0340	3449	2746	0007195	1823	14833														
		STD	1300	0314	3451	2750	0006810	1893	14839														
		STD	1400	0292	3454	2755	0006397	1959	14846														
		STD	1500	0273	3456	2758	0006082	2021	14855														
190		OBS	T1540	0266	34573	2760			14862														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	DRIFT INDIC	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1079	KL	2817 N	14000 W		087	80	04	05	101	1967	N05	014	4609	15	36	5	5		X1	6	5	0014
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									36	506	240	161	144	8	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C						
		STD	0000	1925	3518	2511	0028605	0000	15203														
	101	OBS	0000	1925	35178	2511			15203														
		STD	0010	1921	3518	2512	0028534	0029	15203														
	101	OBS	0010	1921	35179	2512			15203														
		STD	0020	1915	3517	2513	0028495	0057	15203														
		STD	0030	1910	3517	2515	0028391	0086	15203														
	101	OBS	0031	1909	35165	2514			15203														
		STD	0050	1905	3515	2514	0028483	0142	15205														
	101	OBS	0051	1905	35151	2514			15205														
		STD	0075	1903	3515	2515	0028533	0214	15208														
	101	OBS	0076	1903	35149	2515			15209														
		STD	0100	1894	3514	2516	0028462	0285	15210														
	101	OBS	0102	1893	35140	2516			15210														
		STD	0125	1891	3511	2515	0028699	0356	15213														
		STD	0150	1838	3501	2520	0028230	0428	15201														
	101	OBS	0154	1824	34982	2522			15197														
		STD	0200	1551	3451	2550	0025498	0562	15117														
	101	OBS	T0208	1506	34449	2555			15103														
		STD	0250	1258	3425	2591	0021598	0680	15026														
		STD	0300	1029	3409	2621	0018777	0781	14952														
	101	OBS	0309	0996	34067	2625			14941														
		STD	0400	0803	3402	2652	0015888	0954	14883														
	101	OBS	0410	0785	34014	2654			14878														
		STD	0500	0661	3407	2676	0013646	1102	14845														
		STD	0600	0556	3414	2695	0011869	1229	14820														
	101	OBS	0617	0542	34152	2698			14817														
		STD	0700	0502	3424	2709	0010560	1341	14816														
		STD	0800	0458	3433	2721	0009454	1441	14816														
	101	OBS	T0819	0450	34341	2723			14816														
		STD	0900	0420	3438	2729	0008718	1532	14817														
		STD	1000	0387	3443	2737	0008040	1616	14821														
	101	OBS	T1015	0382	34432	2737			14821														
		STD	1100	0356	3446	2742	0007531	1694	14825														
		STD	1200	0330	3450	2748	0007003	1766	14831														
		STD	1300	0306	3453	2753	0006568	1834	14838														
		STD	1400	0286	3455	2756	0006249	1898	14846														
	101	OBS	1466	0274	34559	2758			14852														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	M/D	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
31	1079	KL	3000 N	14000 W		123	00	04	06	094	1967	N05	015	4572	15	02	2	5		X8	2	6	0015		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								25	505	230	167	144	7	14											
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH [m]	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S CC								
		STD	0000	1822	3506	2528	0026962	0000	15172																
094		OBS	0000	1822	35063	2528																			
		STD	0010	1822																					
094		OBS	0010	1822				0027																	
		STD	0020	1821				0054																	
		STD	0030	1820				0081																	
094		OBS	0031	1820																					
		STD	0050	1820				0135																	
094		OBS	0051	1820																					
		STD	0075	1810				0203																	
094		OBS	0076	1810																					
		STD	0100	1808				0271																	
094		OBS	0102	1807																					
		STD	0125	1784				0339																	
		STD	0150	1759				0405																	
094		OBS	0155	1754																					
		STD	0200	1379				0517																	
094		OBS	0209	1320																					
		STD	0250	1186				0600																	
		STD	0300	1048				0669																	
094		OBS	0310	1024																					
		STD	0400	0864				0783																	
094		OBS	T0412	0843																					
		STD	0500	0663				0871																	
		STD	0600	0515				0938																	
094		OBS	T0618	0495																					
		STD	0700	0449				0995																	
		STD	0800	0405				1050																	
094		OBS	0816	0399																					
		STD	0900	0381				1103																	
		STD	1000	0360				1157																	
094		OBS	T1018	0356																					
		STD	1100	0339				1212																	
		STD	1200	0319				1268																	
		STD	1300	0299				1324																	
		STD	1400	0280				1381																	
		STD	1500	0262				1439																	
094		OBS	T1520	0258	34568	2760					14855														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1079	KL	3000 N	14000 W		123	00	04	07	009	1967	N05	016	4572	15	04	2	2		X1	6	4	0016
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	OIR.	SPEED OR FORCE	DRY BULB		WET BULB															
				08	510	220		189		183		8		14									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SCC		
		STD	0000	1868	3510	2520		0027804		0000		15186											
009		OBS	0000	1868	35098	2520						15186											
		STD	0010	1852	3510	2523		0027476		0028		15183											
009		OBS	0011	1851	35095	2524						15183											
		STD	0020	1846	3509	2524		0027406		0055		15183											
		STD	0030	1841	3509	2526		0027308		0082		15183											
009		OBS	0031	1840	35088	2526						15183											
		STD	0050	1842	3509	2526		0027405		0137		15186											
009		OBS	0052	1842	35093	2526						15187											
		STD	0075	1840	3509	2526		0027451		0206		15190											
009		OBS	0077	1840	35089	2526						15190											
		STD	0100	1843	3509	2525		0027595		0275		15195											
009		OBS	0103	1843	35090	2525						15195											
		STD	0125	1835	3507	2526		0027613		0344		15196											
		STD	0150	1826	3506	2527		0027615		0413		15198											
009		OBS	0156	1824	35052	2527						15198											
		STD	0200	1517	3450	2557		0024845		0544		15106											
009		OBS	T0210	1458	34404	2562						15087											
		STD	0250	1297	3428	2586		0022126		0661		15040											
		STD	0300	1126	3416	2609		0019948		0766		14987											
009		OBS	0311	1093	34144	2614						14977											
		STD	0400	0887	3406	2642		0016878		0950		14916											
009		OBS	T0407	0872	34054	2644						14911											
		STD	0500	0671	3404	2672		0014005		1105		14848											
		STD	0600	0516	3403	2691		0012212		1236		14802											
009		OBS	0617	0496	34023	2693						14797											
		STD	0700	0447	3413	2707		0010708		1351		14792											
		STD	0800	0401	3424	2720		0009443		1451		14791											
009		OBS	T0813	0396	34258	2722						14791											
		STD	0900	0378	3434	2731		0008518		1541		14799											
		STD	1000	0358	3442	2739		0007773		1623		14808											
009		OBS	T1023	0353	34435	2741						14810											
		STD	1100	0338	3446	2744		0007357		1698		14817											
		STD	1200	0318	3448	2748		0006995		1770		14825											
		STD	1300	0299	3451	2752		0006641		1838		14834											
		STD	1400	0280	3454	2755		0006289		1903		14843											
		STD	1500	0262	3456	2759		0005937		1964		14853											
009		OBS	1528	0257	34569	2760						14856											

TABLE I.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OFF NOCTR	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
						10"	1'	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
						WATER	WIND	BARO- METER (mb)	AIR TEMP. °C															VIS. CODE	NO. OBS. DEPTHS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																				
								06	S15	240	178	172	8	14											
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC								
		STD	0000	1851	3510	2524	0027368	0000	15181																
187		OBS	0000	1851	35102	2524			15181																
		STD	0010	1843	3510	2526	0027247	0027	15180																
187		OBS	0010	1843	35097	2526			15180																
		STD	0020	1843	3509	2525	0027332	0055	15182																
		STD	0030	1843	3509	2525	0027373	0082	15183																
187		OBS	0030	1843	35089	2525			15183																
187		OBS	0049	1846	35096	2525			15187																
		STD	0050	1846	3510	2525	0027461	0137	15188																
187		OBS	0074	1845	35096	2525			15191																
		STD	0075	1845	3510	2525	0027517	0206	15191																
187		OBS	0099	1841	35095	2526			15194																
		STD	0100	1838	3509	2527	0027482	0274	15193																
		STD	0125	1761	3489	2530	0027203	0343	15173																
		STD	0150	1654	3469	2540	0026311	0410	15142																
187		OBS	0150	1654	34688	2540			15142																
		STD	0200	1351	3423	2571	0023416	0534	15049																
187		OBS	0202	1341	34213	2572			15046																
		STD	0250	1191	3418	2599	0020868	0645	15002																
		STD	0300	1059	3414	2620	0018899	0744	14963																
187		OBS	0301	1057	34142	2620			14963																
		STD	0400	0873	3406	2645	0016659	0922	14910																
187		OBS	T0402	0869	34059	2645			14909																
		STD	0500	0667	3403	2672	0014017	1075	14847																
		STD	0600	0522	3400	2688	0012456	1207	14805																
187		OBS	0604	0517	34002	2689			14803																
		STD	0700	0465	3412	2704	0011001	1325	14799																
		STD	0800	0412	3423	2718	0009639	1428	14795																
187		OBS	T0801	0411	34232	2719			14795																
		STD	0900	0383	3432	2728	0008724	1520	14801																
		STD	1000	0357	3440	2737	0007909	1603	14808																
187		OBS	T1008	0355	34407	2738			14808																
		STD	1100	0333	3444	2743	0007447	1680	14815																
		STD	1200	0312	3447	2747	0007044	1752	14823																
		STD	1300	0293	3450	2751	0006667	1821	14832																
		STD	1400	0277	3453	2755	0006313	1886	14842																
187		OBS	T1498	0263	34557	2759			14853																

TABLE II. Observed and interpolated oceanographic data for stations taken by USCGC PONT-CHARTRAIN at Ocean Station NOVEMBER, 2-19 May 1967, prepared from NODC Listing No. 31-1080 PW.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	1080	PW	3000 N	14000 W	123	00	05	02	200	1967	N06	001	4206	14	34	3	4		X5	6	6	0001
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
									36	S11	261	189	161	8	14							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₂ -N µg - at/l	SiO ₄ -S µg - at/l	pH	CO ₂ atm					
		STD	0000	1855	3507	2520	0027732	0000	15182													
200		OBS	0000	1855	35065	2520			15182													
200		OBS	0009	1835	35055	2525			15177													
		STD	0010	1834	3506	2525	0027338	0028	15177													
		STD	0020	1823	3506	2528	0027111	0055	15176													
200		OBS	0028	1817	35055	2529			15175													
		STD	0030	1817	3506	2529	0026967	0082	15175													
200		OBS	0046	1815	35068	2531			15178													
		STD	0050	1815	3507	2531	0026928	0136	15178													
200		OBS	0070	1810	35067	2532			15180													
		STD	0075	1806	3506	2532	0026857	0203	15180													
200		OBS	0094	1788	35022	2534			15177													
		STD	0100	1779	3501	2535	0026660	0270	15175													
		STD	0125	1740	3494	2539	0026344	0336	15167													
200		OBS	0142	1713	34837	2538			15161													
		STD	0150	1654	3474	2544	0025933	0401	15143													
200		OBS	T0191	1394	34350	2572			15063													
		STD	0200	1358	3432	2577	0022896	0523	15052													
		STD	0250	1178	3420	2603	0020476	0632	14998													
200		OBS	0284	1077	34142	2617			14967													
		STD	0300	1043	3412	2621	0018794	0730	14957													
200		OBS	T0375	0887	34059	2642			14911													
		STD	0400	0824	3405	2651	0015981	0904	14892													
		STD	0500	0619	3402	2677	0013482	1051	14827													
200		OBS	0557	0536	33996	2686			14803													
		STD	0600	0506	3404	2693	0011985	1179	14798													
		STD	0700	0448	3415	2708	0010571	1291	14793													
200		OBS	T0735	0431	34185	2713			14792													
		STD	0800	0410	3425	2720	0009473	1392	14795													
		STD	0900	0380	3433	2730	0008615	1482	14800													
200		OBS	T0915	0376	34346	2731			14801													
		STD	1000	0354	3438	2736	0008030	1565	14806													
		STD	1100	0330	3442	2741	0007545	1643	14813													
		STD	1200	0310	3446	2746	0007094	1716	14822													
		STD	1300	0294	3449	2751	0006693	1785	14832													
		STD	1400	0280	3453	2755	0006304	1850	14843													
200		OBS	T1409	0279	34536	2756			14845													

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1080	PW	29597N	14000 W		087	90	05	03	195	1967	N06	002	4206	16	34	3	4		X1	6	5	0002
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
										262	178	139	8	14									
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C				
		STD	0000	1830	3507	2527	0027093		0000		15174												
195		OBS	0000	1830	35071	2527					15174												
		STD	0010	1826	3507	2528	0027040		0027		15175												
195		OBS	0012	1825	35066	2528					15175												
		STD	0020	1825	3507	2528	0027077		0054		15176												
		STD	0030	1824	3506	2528	0027115		0081		15178												
195		OBS	0033	1824	35062	2528					15178												
		STD	0050	1824	3508	2529	0027054		0135		15181												
195		OBS	0054	1824	35088	2530					15182												
		STD	0075	1824	3509	2530	0027094		0203		15185												
195		OBS	0084	1819	35085	2531					15185												
		STD	0100	1799	3504	2532	0026921		0271		15181												
195		OBS	0111	1783	34998	2533					15178												
		STD	0125	1754	3498	2539	0026389		0337		15172												
		STD	0150	1703	3486	2542	0026157		0403		15159												
195		OBS	0159	1684	34793	2541					15154												
		STD	0200	1337	3427	2577	0022848		0525		15045												
195		OBS	T0204	1310	34230	2580					15036												
		STD	0250	1169	3419	2604	0020386		0634		14995												
		STD	0300	1038	3415	2624	0018489		0731		14956												
195		OBS	0305	1026	34147	2626					14952												
		STD	0400	0851	3405	2647	(• 16393		0905		14902												
195		OBS	T0406	0840	34045	2648					14899												
		STD	0500	0640	3405	2677	0013525		1055		14836												
		STD	0600	0492	3405	2696	0011726		1181		14793												
195		OBS	0604	0487	34052	2696					14791												
		STD	0700	0440	3415	2709	0010477		1292		14789												
		STD	0800	0402	3424	2720	0009454		1392		14791												
195		OBS	T0809	0399	34253	2722					14791												
		STD	0900	0379	3433	2730	0008604		1482		14799												
		STD	1000	0358	3441	2738	0007847		1564		14808												
195		OBS	1025	0353	34422	2740					14810												
		STD	1100	0338	3444	2743	0007446		1641		14817												
		STD	1200	0318	3447	2747	0007084		1713		14825												
		STD	1300	0299	3450	2751	0006722		1782		14834												
		STD	1400	0280	3453	2755	0006363		1848		14843												
		STD	1500	0262	3455	2758	0006003		1910		14853												
195		OBS	T1591	0246	34578	2762					14862												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PORT INDIC	MARSEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
31	1080	PW	30000N	140000W		123	00	05	04	202	1967	N06	003	4663	13	04	2	4		X1	8	4	0003	
						WATER		WIND				BARO- METER		AIR TEMP. °C										
						COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
										04		515		272		178		156		8		13		
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ 0 DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC			
		STD	0000	1829	3509	2529		0026939		0000		15174												
	202	OBS	0000	1829	35089	2529						15174												
		STD	0010	1825	3509	2530		0026888		0027		15175												
	202	OBS	0011	1824	35086	2530						15175												
		STD	0020	1824	3509	2530		0026898		0054		15176												
	202	OBS	0029	1823	35085	2530						15177												
		STD	0030	1823	3509	2530		0026929		0081		15178												
	202	OBS	0048	1825	35084	2529						15181												
		STD	0050	1825	3508	2529		0027078		0135		15181												
		STD	0075	1813	3507	2531		0026950		0202		15182												
	202	OBS	0076	1812	35065	2531						15182												
	202	OBS	0097	1793	35014	2532						15179												
		STD	0100	1790	3501	2532		0026946		0270		15179												
		STD	0125	1767	3495	2534		0026868		0337		15175												
		STD	0150	1743	3490	2535		0026794		0404		15172												
	202	OBS	0150	1743	34900	2535						15172												
		STD	0200	1393	3434	2571		0023449		0530		15064												
	202	OBS	T0202	1381	34325	2572						15060												
		STD	0250	1219	3424	2598		0020939		0641		15013												
		STD	0300	1072	3416	2619		0018999		0740		14968												
	202	OBS	0315	1033	34143	2625						14956												
		STD	0400	0857	3404	2645		0016559		0918		14904												
	202	OBS	0424	0811	34020	2651						14890												
		STD	0500	0663	3403	2672		0014006		1071		14845												
		STD	0600	0518	3403	2691		0012184		1202		14803												
	202	OBS	0633	0482	34035	2695						14794												
		STD	0700	0447	3412	2706		0010782		1317		14792												
		STD	0800	0402	3424	2720		0009454		1418		14791												
	202	OBS	T0823	0393	34265	2723						14791												
		STD	0900	0365	3434	2732		0008369		1507		14793												
		STD	1000	0336	3441	2740		0007595		1587		14799												
		STD	1100	0314	3447	2747		0006971		1660		14807												
		STD	1200	0300	3451	2752		0006581		1727		14818												
	202	OBS	T1274	0295	34519	2753						14829												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORIGINATOR'S	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER						
CTRY CODE	IO. NO.																
31	1080	PW	29450N	140000W	087 90 05 05 008	1967	N06 004	4755	16 04 2 4	X1	7 6	0004					
MARSON SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER					
10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER											
087	90	05	05	008	1967	N06 004	4755	16	04 2 4	X1	7 6	0004					
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER					
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
				281	172	144	8	14									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta O$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S C
		STD	0000	1827	3509	2529	0026913	0000	15174								
008		OBS	0000	1827	35086	2529			15174								
		STD	0010	1825	3508	2529	0026934	0027	15175								
008		OBS	0011	1825	35082	2529			15175								
		STD	0020	1824	3508	2529	0026970	0054	15176								
		STD	0030	1823	3507	2529	0027017	0081	15177								
008		OBS	0031	1823	35072	2529			15178								
		STD	0050	1826	3508	2528	0027128	0135	15182								
008		OBS	0051	1826	35076	2528			15182								
		STD	0075	1824	3508	2529	0027167	0203	15185								
008		OBS	0078	1823	35076	2529			15185								
		STD	0100	1811	3505	2530	0027117	0271	15185								
008		OBS	0101	1810	35051	2530			15185								
		STD	0125	1741	3491	2537	0026594	0338	15167								
		STD	0150	1661	3473	2542	0026148	0404	15145								
008		OBS	0150	1661	34732	2542			15145								
		STD	0200	1394	3425	2564	0024126	0529	15063								
008		OBS	0202	12930	34234	25830											
		STD	0250	1178	3419	2602	0020550	0641	14998								
		STD	0300	1013	3414	2628	0018140	0738	14947								
008		OBS	0302	1007	34134	2628			14945								
		STD	0400	0844	3403	2647	0016433	0911	14899								
008		OBS	T0412	0824	34023	2649			14893								
		STD	0500	0644	3403	2675	0013727	1062	14838								
		STD	0600	0498	3403	2693	0011932	1190	14795								
008		OBS	0614	0483	34035	2695			14791								
		STD	0700	0443	3412	2706	0010735	1303	14790								
		STD	0800	0405	3421	2718	0009712	1405	14792								
008		OBS	T0824	0397	34228	2720			14793								
		STD	0900	0380	3430	2727	0008838	1498	14799								
		STD	1000	0358	3438	2736	0008069	1583	14808								
008		OBS	T1033	0351	34408	2739			14811								
		STD	1100	0337	3443	2741	0007567	1661	14816								
		STD	1200	0318	3445	2745	0007217	1735	14825								
		STD	1300	0299	3448	2749	0006869	1805	14834								
		STD	1400	0282	3450	2753	0006540	1872	14844								
		STD	1500	0266	3453	2756	0006219	1936	14854								
008		OBS	T1620	0248	34561	2760			14867								

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SUNSET INDEX	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER				DIR.	HGT.	PER.		SEA			TYPE	AMT							
31	1080	PW	2830 N	14000 W		087	80	05	06	198	1967	N06	005		4638	19	04	2	4			X2	6	8		0005							
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																				
												178	167				8	13															
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S CODE																
		STD	0000	1981	3521	2499	0029728	0000	15219																								
198		OBS	0000	1981	35214	2499			15219																								
		STD	0010	1980	3521	2500	0029738	0030	15220																								
198		OBS	0014	1979	35214	2500			15220																								
		STD	0020	1979	3521	2500	0029736	0059	15221																								
		STD	0030	1978	3521	2500	0029759	0089	15223																								
198		OBS	0039	1977	35212	2500			15224																								
		STD	0050	1946	3519	2507	0029209	0148	15217																								
198		OBS	0065	1906	35164	2515			15208																								
		STD	0075	1896	3515	2516	0028360	0220	15206																								
		STD	0100	1854	3507	2521	0028010	0291	15198																								
		STD	0125	1789	3496	2529	0027349	0360	15182																								
198		OBS	0127	1783	34952	2530			15180																								
		STD	0150	1694	3477	2537	0026616	0427	15155																								
198		OBS	0190	1514	34487	2556			15103																								
		STD	0200	1450	3441	2564	0024099	0554	15083																								
		STD	0250	1181	3412	2596	0021118	0667	14998																								
198		OBS	T0254	1163	34098	2598			14992																								
		STD	0300	1044	3407	2617	0019179	0768	14957																								
198		OBS	0381	0862	34040	2645			14903																								
		STD	0400	0824	3404	2650	0016070	0944	14891																								
		STD	0500	0657	3403	2673	0013902	1094	14843																								
198		OBS	T0508	0646	34027	2675			14840																								
		STD	0600	0571	3414	2693	0012062	1224	14826																								
		STD	0700	0504	3424	2709	0010585	1337	14817																								
198		OBS	0768	0466	34301	2718			14813																								
		STD	0800	0454	3432	2721	0009479	1437	14814																								
		STD	0900	0419	3438	2730	0008706	1528	14817																								
		STD	1000	0388	3443	2737	0008052	1612	14821																								
198		OBS	T1019	0382	34442	2738			14822																								
		STD	1100	0361	3447	2743	0007516	1690	14827																								
		STD	1200	0337	3450	2747	0007085	1763	14834																								
198		OBS	T1264	0323	34521	2750			14839																								
		STD	1300	0315	3453	2752	0006674	1832	14842																								
		STD	1400	0295	3455	2755	0006355	1897	14850																								
		STD	1500	0277	3457	2758	0006055	1959	14859																								
		STD	1750	0238	3460	2764	0005505	2103	14885																								
198		OBS	T1909	0220	34606	2766			14905																								

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311080		PW	2832 N	140100W	087	80	05 07	193	1967	N06	006	4755	15	03	3			X1	6	6	0006
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
										247	183	156	8	14							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	1940	3522	2510	0028676	0000	15207												
193		OBS	0000	1940	35219	2510			15207												
		STD	0010	1935	3522	2512	0028595	0029	15208												
193		OBS	0010	1935	35218	2512			15208												
		STD	0020	1926	3520	2513	0028539	0057	15206												
		STD	0030	1908	3517	2515	0028352	0086	15203												
193		OBS	0032	1903	35168	2516			15202												
		STD	0050	1845	3508	2524	0027532	0142	15187												
193		OBS	0050	1845	35083	2524			15187												
		STD	0075	1838	3508	2526	0027471	0210	15189												
193		OBS	0077		35076																
193		OBS	0098	1827	35085	2529			15190												
		STD	0100	1826	3508	2529	0027245	0279	15190												
		STD	0125	1808	3505	2531	0027153	0347	15188												
193		OBS	0148	1792	35019	2532			15187												
		STD	0150	1780	3499	2533	0027002	0414	15184												
193		OBS	T0196	1518	34481	2555			15105												
		STD	0200	1496	3446	2558	0024692	0544	15099												
		STD	0250	1257	3427	2593	0021433	0659	15026												
193		OBS	0290	1106	34159	2613			14979												
		STD	0300	1081	3414	2616	0019302	0761	14971												
193		OBS	T0383	0892	34056	2641			14915												
		STD	0400	0856	3406	2647	0016425	0939	14904												
		STD	0500	0678	3406	2673	0013961	1091	14851												
193		OBS	0567	0588	34060	2685			14827												
		STD	0600	0561	3410	2691	0012229	1222	14822												
		STD	0700	0490	3420	2707	0010708	1337	14811												
193		OBS	T0751	0461	34252	2715			14808												
		STD	0800	0442	3429	2720	0009556	1438	14808												
		STD	0900	0407	3437	2730	0008636	1529	14812												
193		OBS	T0942	0394	34394	2733			14813												
		STD	1000	0377	3443	2738	0007922	1612	14816												
		STD	1100	0350	3448	2744	0007312	1688	14822												
		STD	1200	0327	3451	2749	0006894	1759	14830												
		STD	1300	0309	3453	2752	0006603	1827	14839												
		STD	1400	0294	3454	2755	0006417	1892	14850												
193		OBS	T1463	0287	34544	2755			14857												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR:1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
31	1080	PW	2830 N	14000 W	087	80	05	08	187	1967	N06	007	4755	14	08	2	4		X1	8	2	0007				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB														
								03	S12	240	211	167	8	14												
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C									
		STD	0000	1889	3516	2519	0027881	0000	15192																	
187		OBS	0000	1889	35157	2519			15192																	
187		OBS	0009	1888	35157	2519			15193																	
		STD	0010	1888	3516	2519	0027891	0028	15194																	
		STD	0020	1885	3516	2520	0027846	0056	15194																	
187		OBS	0029	1884	35158	2520			15196																	
		STD	0030	1884	3516	2520	0027861	0084	15196																	
187		OBS	0048	1888	35158	2519			15200																	
		STD	0050	1888	3515	2519	0028072	0140	15200																	
187		OBS	0073		3501P																					
		STD	0075	1884	3509	2515	0028494	0210	15202																	
187		OBS	0097	1880	3507P	2514P																				
		STD	0100	1870	3500	2512	0028903	0282	15201																	
		STD	0125	1776	3488	2526	0027625	0353	15177																	
187		OBS	0148	1677	34748	2539			15150																	
		STD	0150	1666	3473	2541	0026274	0420	15147																	
		STD	0200	1412	3436	2568	0023716	0545	15070																	
187		OBS	T0200	1412	34356	2568			15070																	
		STD	0250	1182	3416	2599	0020843	0656	14999																	
187		OBS	0295	1025	34047	2619			14949																	
		STD	0300	1015	3405	2620	0018865	0756	14946																	
187		OBS	T0390	0853	34035	2646			14901																	
		STD	0400	0833	3404	2649	0016192	0931	14895																	
		STD	0500	0664	3406	2675	0013761	1081	14846																	
187		OBS	0580	0566	34101	2691			14820																	
		STD	0600	0554	3412	2694	0011992	1209	14819																	
		STD	0700	0499	3421	2707	0010745	1323	14814																	
187		OBS	T0764	0468	34264	2715			14813																	
		STD	0800	0453	3429	2719	0009689	1425	14813																	
		STD	0900	0415	3437	2729	0008732	1517	14815																	
187		OBS	T0948	0398	34400	2733			14816																	
		STD	1000	0381	3442	2736	0008080	1601	14818																	
		STD	1100	0352	3445	2742	0007594	1680	14823																	
		STD	1200	0328	3447	2746	0007171	1754	14830																	
		STD	1300	0308	3450	2750	0006783	1823	14838																	
		STD	1400	0293	3453	2754	0006449	1890	14849																	
187		OBS	T1442	0288	34546	2756			14854																	

TABLE II.—Continued

REF- CODE	IO. NO.	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH METERS	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER	
						10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mb)		DRY BULB	WET BULB			VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
311080		PW	2957 N	14002 W		087	90	05	09	000	1967	N06	008	4105	15	2		2		X2	6 8		0008
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
									35		S08	240					172	150	8	14			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S CODE						
		STD	0000	1728	3469	2523	0027523	0000	15140														
000		OBS	0000	1728	34686	2523			15140														
		STD	0010	1722	3470	2525	0027353	0027	15140														
000		OBS	0010	1722	34695	2525			15140														
		STD	0020	1722	3471	2526	0027276	0055	15142														
		STD	0030	1722	3473	2527	0027147	0082	15144														
000		OBS	0030	1722	34732	2527			15144														
		STD	0050	1727	3476	2528	0027129	0136	15149														
000		OBS	0050	1727	34759	2528			15149														
		STD	0075	1729	3477	2529	0027153	0204	15154														
000		OBS	0075		34773																		
		STD	0100	1731	3479	2530	0027170	0272	15159														
000		OBS	0100	1731	34788	2530			15159														
		STD	0125	1553	3469	2563	0024008	0336	15107														
		STD	0150	1400	3460	2590	0021554	0393	15061														
000		OBS	0152	1389	34594	2592			15058														
		STD	0200	1271	3442	2602	0020475	0498	15024														
000		OBS	T0204	1306P	3419P	2577P																	
		STD	0250	1153	3428	2614	0019437	0598	14990														
		STD	0300	1040	3416	2625	0018449	0692	14957														
000		OBS	0303	1033	34159	2626			14955														
		STD	0400	0829	3404	2650	0016131	0865	14893														
000		OBS	0401	0827	34038	2650			14893														
		STD	0500	0644	3404	2676	0013660	1014	14838														
		STD	0600	0512	3404	2692	0012096	1143	14801														
000		OBS	0602	0510	34035	2692			14800														
		STD	0700	0451	3416	2709	0010533	1256	14794														
000		OBS	T0797	0406	34267	2722			14793														
		STD	0800	0405	3427	2722	0009267	1355	14793														
		STD	0900	0377	3435	2731	0008433	1444	14799														
000		OBS	T0990	0354	34415	2739			14805														
		STD	1000	0352	3442	2740	0007704	1524	14806														
		STD	1100	0329	3448	2747	0007068	1598	14813														
		STD	1200	0308	3452	2752	0006599	1667	14822														
		STD	1300	0290	3455	2756	0006234	1731	14831														
		STD	1400	0275	3456	2758	0006047	1792	14842														
000		OBS	T1498	0262	34563	2759			14853														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCH	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER				DIR.	HGT	PER	SEA		TYPE	AMT								
						123	00	05	11	194															1967						
311080		PW	3009 N	14000 W		123	00	05	11	194	1967	N06	009		4609	10	08					X1	6 1	0009							
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																				
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB									WET BULB																	
			06	S08	290	178	133	8	13																						
MESSAGE TIME HR 1/10	CAS NO.	CAR TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S DTS														
		STD	0000	1735	3473	2524	0027399	0000	15143																						
194		OBS	0000	1735	34725	2524			15143																						
194		OBS	0008	1724	34718	2526			15141																						
		STD	0010	1724	3472	2526	0027210	0027	15141																						
		STD	0020	1724	3473	2527	0027176	0055	15143																						
194		OBS	0025	1724	34734	2527			15144																						
		STD	0030	1724	3474	2528	0027135	0082	15144																						
194		OBS	0040	1724	34755	2529			15146																						
		STD	0050	1719	3473	2528	0027158	0136	15146																						
		STD	0075	1702	3469	2529	0027142	0204	15145																						
194		OBS	0085	1694	34683	2530			15144																						
		STD	0100	1676	3469	2535	0026636	0271	15141																						
		STD	0125	1647	3470	2543	0025971	0337	15136																						
194		OBS	0129		34705																										
		STD	0150	1618	3469	2549	0025508	0401	15131																						
194		OBS	0172	1592	34670	2553			15127																						
		STD	0200	1425	3439	2568	0023732	0524	15075																						
		STD	0250	1197	3410	2592	0021558	0637	15003																						
194		OBS	0255	1179	34090	2594			14998																						
		STD	0300	1075	3416	2619	0019051	0739	14969																						
194		OBS	0324	1024	34187	2630			14955																						
		STD	0400	0915	3411	2642	0016954	0919	14927																						
194		OBS	0486	0771	34044	2659			14885																						
		STD	0500	0734	3404	2663	0014913	1078	14873																						
		STD	0600	0524	3399	2687	0012593	1216	14805																						
194		OBS	0630	0480	33973	2691			14792																						
		STD	0700	0425	3403	2701	0011192	1335	14781																						
194		OBS	0764	0367	34088	2710			14777																						
		STD	0800	0371	3413	2715	0009917	1440	14777																						
		STD	0900	0344	3426	2728	0008724	1534	14783																						
194		OBS	0991	0344	34407	2739			14801																						

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DRIFT SNOCH	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																										
CTRY CODE	IO. NO.						MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	OBSERVATIONS				TYPE	AMT																															
													DIR.			HGT			PER		SEA																												
311080	PW	30040N	140000W	123	00	05	12	196	1967	N06	010	4554	17	09					X2	6	8	0010																											
<table><tr><td colspan="3">WATER</td><td colspan="3">WIND</td><td rowspan="3">BARO- METER (mb)</td><td colspan="2">AIR TEMP. °C</td><td rowspan="3">VIS. CODE</td><td rowspan="3">NO. OBS. DEPTHS</td><td rowspan="3">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>DRY BULB</td><td>WET BULB</td></tr><tr><td></td><td></td><td>11</td><td>S12</td><td>290</td><td>183</td><td>167</td><td>8</td><td>13</td></tr></table>																							WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB			11	S12	290	183	167	8	13
WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																						
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																																												
		11	S12	290	183		167	8				13																																					
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C																																
		STD	0000	1731	3472	2525	0027322	0000	15141																																								
196		OBS	0000	1731	34723	2525			15141																																								
		STD	0010	1723	3472	2526	0027179	0027	15141																																								
196		OBS	0010	1723	34722	2526			15141																																								
		STD	0020	1721	3472	2527	0027189	0054	15142																																								
		STD	0030	1720	3472	2527	0027185	0082	15143																																								
196		OBS	0035	1719	34718	2527			15143																																								
		STD	0050	1720	3472	2527	0027254	0136	15146																																								
196		OBS	0056	1720	34719	2527			15147																																								
		STD	0075	1724	3474	2528	0027238	0204	15152																																								
		STD	0100	1728	3478	2530	0027181	0272	15157																																								
202		OBS	0111	1730	34791	2530			15160																																								
		STD	0125	1648	3472	2544	0025867	0339	15137																																								
		STD	0150	1512	3458	2564	0024011	0401	15097																																								
202		OBS	0167		34476																																												
		STD	0200	1286	3421	2583	0022299	0517	15027																																								
202		OBS	T0221	1209	34096	2589			15003																																								
		STD	0250	1145	3412	2603	0020467	0624	14985																																								
		STD	0300	1041	3413	2622	0018687	0721	14957																																								
202		OBS	0334	0976	34131	2633			14939																																								
		STD	0400	0865	3406	2646	0016535	0898	14907																																								
202		OBS	T0446	0790	34030	2655			14886																																								
		STD	0500	0688	3405	2671	0014188	1051	14855																																								
		STD	0600	0538	3408	2692	0012093	1183	14812																																								
202		OBS	0665	0468	34100	2702			14794																																								
		STD	0700	0454	3414	2707	0010716	1297	14795																																								
		STD	0800	0417	3426	2720	0009481	1398	14798																																								
202		OBS	T0885	0390	34334	2729			14801																																								
		STD	0900	0386	3434	2730	0008611	1488	14802																																								
		STD	1000	0360	3441	2738	0007870	1570	14809																																								
202		OBS	T1097	0337	34464	2744			14816																																								
		STD	1100	0336	3447	2745	0007223	1646	14816																																								
		STD	1200	0314	3451	2750	0006742	1716	14824																																								
		STD	1300	0294	3455	2755	0006281	1781	14833																																								
		STD	1400	0275	3457	2759	0005973	1842	14842																																								
		STD	1500	0258	3458	2761	0005758	1901	14851																																								
202		OBS	T1655	0236	34587	2763			14868																																								

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1080	PW	3000 N	14000 W	123	00	05	13	194	1967	N06	011		4663	16	09			3	X2	6	8	0011
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB								
					10	S12	291	178	156			13											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	CTD#						
		STD	0000	1712	3464	2523	0027487	0000	15135														
194		OBS	0000	1712	34641	2523			15135														
		STD	0010	1706	3466	2526	0027259	0027	15135														
194		OBS	0010	1706	34658	2526			15135														
		STD	0020	1706	3466	2526	0027282	0055	15136														
		STD	0030	1705	3466	2526	0027305	0082	15138														
194		OBS	0035	1705	34658	2526			15139														
		STD	0050	1709	3469	2527	0027217	0136	15143														
194		OBS	0055	1710	34695	2528			15144														
		STD	0075	1696	3468	2529	0027118	0264	15143														
		STD	0100	1679	3465	2531	0026993	0272	15141														
194		OBS	0111	1671	34638	2532			15141														
		STD	0125	1584	3456	2546	0025625	0338	15115														
		STD	0150	1443	3442	2567	0023743	0399	15073														
194		OBS	0166		34330																		
		STD	0200	1207	3411	2590	0021549	0513	14999														
194		OBS	T0221	1127	34018	2598			14973														
		STD	0250	1063	3403	2610	0019706	0616	14955														
		STD	0300	0957	3405	2630	0017909	0710	14925														
194		OBS	0330	0895	34	57	2641		14907														
		STD	0400	0752	3400	2658	0015290	0876	14865														
194		OBS	T0442	0680	33992	2667			14842														
		STD	0500	0608	3403	2680	0013234	1019	14823														
		STD	0600	0506	3411	2698	0011491	1142	14800														
194		OBS	0658	0463	34149	2706			14792														
		STD	0700	0446	3418	2711	0010325	1251	14792														
		STD	0800	0409	3426	2721	0009387	1350	14794														
194		OBS	0882	0383	34322	2729			14798														
		STD	0900	0379	3434	2730	0008530	1439	14799														
		STD	1000	0357	3441	2738	0007836	1521	14808														
194		OBS	T1093	0337	34461	2744			14815														
		STD	1100	0336	3446	2744	0007275	1597	14816														
		STD	1200	0316	3449	2748	0006950	1668	14825														
		STD	1300	0297	3451	2752	0006632	1736	14834														
		STD	1400	0279	3453	2755	0006322	1801	14843														
		STD	1500	0262	3455	2758	0006011	1862	14853														
194		OBS	T1649	0239	34585	2763			14868														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311080		PW	3000 N	14000 W		123	00	05	14	197	1967	N06	012	4572	17	09	4	2		X5	6	5	0012
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								08		515	291	172	150	7	13								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C						
		STD	0000	1741	3480	2528	0027019	0000	15145														
197		OBS	0000	1741	34796	2528			15145														
		STD	0010	1741	3479	2528	0027066	0027	15147														
197		OBS	0010	1741	34794	2528			15147														
		STD	0020	1740	3479	2528	0027073	0054	15148														
		STD	0030	1739	3479	2528	0027085	0081	15149														
197		OBS	0036	1738	34793	2528			15150														
		STD	0050	1739	3479	2528	0027166	0135	15153														
197		OBS	0056	1740	34793	2528			15154														
		STD	0075	1738	3479	2528	0027214	0203	15157														
		STD	0100	1736	3480	2529	0027234	0271	15160														
197		OBS	0111	1735	34796	2529			15162														
		STD	0125	1644	3467	2541	0026142	0338	15135														
		STD	0150	1495	3447	2559	0024456	0401	15090														
197		OBS	0167		34348																		
		STD	0200	1246	3414	2585	0022054	0518	15012														
197		OBS	T0223	1154	34038	2595			14983														
		STD	0250	1089	3404	2607	0020044	0623	14965														
		STD	0300	0977	3405	2627	0018183	0719	14932														
197		OBS	0334	0906	34060	2639			14912														
		STD	0400	0781	3401	2655	0015637	0888	14875														
197		OBS	T0444	0708	33994	2664			14853														
		STD	0500	0627	3402	2677	0013558	1034	14831														
		STD	0600	0511	3407	2695	0011824	1161	14801														
197		OBS	0662	0457	34120	2705			14790														
		STD	0700	0441	3417	2711	0010340	1271	14790														
		STD	0800	0402	3427	2723	0009232	1369	14791														
197		OBS	T0880	0377	34342	2731			14795														
		STD	0900	0373	3436	2733	0008312	1457	14797														
		STD	1000	0351	3442	2740	0007692	1537	14805														
197		OBS	T1094	0332	34466	2745			14814														
		STD	1100	0331	3447	2746	0007165	1611	14814														
		STD	1200	0312	3451	2751	0006719	1681	14823														
		STD	1300	0294	3454	2755	0006354	1746	14833														
		STD	1400	0277	3457	2758	0005997	1808	14843														
		STD	1500	0261	3458	2761	0005793	1867	14853														
197		OBS	T1652	0240	34582	2763			14869														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	HAFT NO.	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311080		PW	2833 N	14001 W		087	80	05	16	064	1967	N06 013	4846	15	15	2	4		X1	6	5	0013
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								06		S05	183 156		13									
MESSENGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°		$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - dl/l	TOTAL-P µg - dl/l	ND ₃ -N µg - dl/l	ND ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH					
		STD	0000	1944	3524	2511	0028636		0000	15209												
064		OBS	0000	1944	35238	2511				15209												
		STD	0010	1944	3523	2511	0028700		0029	15210												
064		OBS	0010	1944	35234	2511				15210												
		STD	0020	1936	3523	2512	0028567		0057	15210												
064		OBS	0029	1926	35218	2514				15208												
		STD	0030	1924	3521	2514	0028453		0086	15208												
064		OBS	0048	1897	35160	2517				15202												
		STD	0050	1896	3516	2517	0028201		0142	15202												
		STD	0075	1865	3512	2522	0027827		0213	15197												
064		OBS	0097	1818	35042	2528				15187												
		STD	0100	1802	3503	2531	0027064		0281	15182												
		STD	0125	1676	3487	2549	0025403		0347	15147												
		STD	0150	1556	3470	2564	0024074		0409	15112												
064		OBS	0152		34682																	
		STD	0200	1338	3427	2577	0022868		0526	15045												
064		OBS	T0201	1334	34266	2578				15044												
		STD	0250	1143	3414	2605	0020284		0634	14985												
064		OBS	0297	0997	34066	2625				14939												
		STD	0300	0991	3406	2625	0018362		0730	14938												
064		OBS	T0395	0810	34028	2652				14885												
		STD	0400	0801	3403	2653	0015785		0901	14883												
		STD	0500	0650	3407	2678	0013497		1048	14841												
064		OBS	0589	0553	34116	2693				14817												
		STD	0600	0547	3412	2694	0011903		1175	14816												
		STD	0700	0497	3420	2707	0010794		1288	14813												
064		OBS	T0776	0462	34264	2716				14812												
		STD	0800	0452	3428	2718	0009751		1391	14812												
		STD	0900	0413	3436	2729	0008782		1483	14814												
064		OBS	T0964	0391	34406	2735				14816												
		STD	1000	0379	3442	2737	0008049		1568	14817												
		STD	1100	0350	3444	2742	0007578		1646	14822												
		STD	1200	0325	3447	2746	0007151		1719	14828												
		STD	1300	0305	3450	2750	0006777		1789	14837												
		STD	1400	0290	3453	2754	0006458		1855	14848												
064		OBS	T1460	0283	34545	2756				14855												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	ORIG. INCH	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	1080	PW	2959 N	14003 W		087	90	05	16	195	1967	N06	014	4650	15	07	3	2		X1	6	5	0014				
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
								04	S04		200	161	7	13													
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₂ -Si µg - ml/l	pH	S	C									
		STD	0000	1887	3515	2519	0027905	0000	15192																		
195		OBS	0000	1887	35147	2519			15192																		
		STD	0010	1875	3514	2521	0027708	0028	15190																		
195		OBS	0010	1875	35139	2521			15190																		
		STD	0020	1826	3490	2515	0028308	0056	15175																		
195		OBS	0029	1790	34777	2514			15164																		
		STD	0030	1787	3478	2515	0028319	0084	15163																		
195		OBS	0049	1740	34773	2526			15153																		
		STD	0050	1740	3477	2526	0027318	0140	15153																		
		STD	0075	1733	3479	2525	0027162	0208	15155																		
195		OBS	0099	1727	34797	2531			15157																		
		STD	0100	1723	3479	2532	002697.	0276	15156																		
		STD	0125	1615	3462	2544	0025865	0342	15126																		
		STD	0150	1513	3448	2556	0024761	0405	15096																		
		STD	0200	1327	3427	2579	0022653	0523	15041																		
195		OBS	T0208	1300	34248	2583			15033																		
		STD	0250	1167	3421	2606	0020203	0631	14994																		
		STD	0300	1029	3416	2627	0018262	0727	14953																		
195		OBS	0306	1014	34153	2629			14948																		
		STD	0400	0822	3404	2651	0016025	0898	14891																		
195		OBS	T0409	0805	34034	2653			14886																		
		STD	0500	0637	3403	2676	0013610	1046	14835																		
		STD	0600	0504	3403	2692	0012050	1175	14797																		
195		OBS	0613	0491	34027	2694			14794																		
		STD	0700	0446	3413	2707	0010696	1288	14791																		
		STD	0800	0405	3424	2720	0009489	1389	14791																		
195		OBS	T0811	0401	34246	2721			14793																		
		STD	0900	0381	3433	2729	0008627	1480	14800																		
		STD	1000	0359	3441	2738	0007859	1562	14809																		
195		OBS	T1013	0356	34414	2739			14809																		
		STD	1100	0338	3444	2742	0007468	1639	14817																		
		STD	1200	0318	3447	2747	0007084	1712	14825																		
		STD	1300	0299	3450	2751	0006714	1781	14834																		
		STD	1400	0281	3453	2755	0006345	1846	14844																		
		STD	1500	0265	3456	2759	0005994	1908	14854																		
195		OBS	T1517	0262	34564	2750			14856																		

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO DAY HR. /10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
311	080	PW	29575N	139553W	086	99	05	17 185	1967	N06	015	4023	15	13	2	3		X2	6	8		0015	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)	DRY BULB	WET BULB											
								13	508	230	189	156	7					13					
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SI O ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C						
		STD	0000	1871	3513	2521		0027665	0000	15187													
185		OBS	0000	1871	35127	2521				15187													
		STD	0010	1867	3513	2522	0027618	0028	15187														
185		OBS	0010	1867	35125	2522			15187														
		STD	0020	1819	3499	2524	0027489	0055	15174														
		STD	0030	1780	3489	2525	0027363	0083	15163														
185		OBS	0030	1780	34886	2525			15163														
		STD	0050	1731	3475	2526	0027315	0137	15150														
185		OBS	0050	1731	34746	2526			15150														
		STD	0075	1736	3479	2529	0027183	0205	15156														
		STD	0100	1741	3484	2531	0027059	0273	15162														
185		OBS	0100	1741																			
		STD	0125	1745	3488	2533	0026900	0341	15168														
		STD	0150	1749	3492	2536	0026752	0408	15174														
185		OBS	0152	1749	34928	2536			15174														
		STD	0200	1360	3424	2570	0023521	0533	15052														
185		OBS	T0203	1340	34211	2572			15045														
		STD	0250	1145	3414	2604	0020320	0643	14986														
		STD	0300	0984	3408	2628	0018100	0739	14935														
185		OBS	0305	0971	34076	2630			14931														
		STD	0400	0814	3405	2652	0015868	0909	14888														
185		OBS	T0409	0799	34042	2654			14883														
		STD	0500	0628	3406	2679	0013298	1055	14832														
		STD	0600	0495	3407	2697	0011606	1179	14794														
185		OBS	0610	0485	34075	2698			14792														
		STD	0700	0444	3418	2711	0010301	1289	14791														
		STD	0800	0407	3428	2723	0009216	1386	14794														
185		OBS	T0814	0402	34292	2724			14794														
		STD	0900	0379	3436	2732	0008382	1474	14800														
		STD	1000	0355	3442	2739	0007738	1555	14807														
185		OBS	T1013	0352	34428	2740			14808														
		STD	1100	0333	3445	2744	0007321	1630	14815														
		STD	1200	0312	3448	2748	0006941	1702	14823														
		STD	1300	0294	3451	2752	0006597	1769	14832														
		STD	1400	0277	3454	2756	0006254	1834	14842														
		STD	1500	0263	3456	2759	0005942	1894	14853														
185		OBS	T1519	0260	34568	2760			14855														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUL INDIC	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311080		PW	29560N	139580W		086	99	05	18	186	1967	N06	016	4572	15	14	2	2		X2	6	8	0016
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								13	S11	227	194	178	8	13									
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₂ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	Si O ₄ -Si $\mu g \cdot dl/l$	pH	S C						
		STD	0000	1785	3483	2520	0027766	0000	15159														
186		OBS	0000	1785	34833	2520			15159														
		STD	0010	1790	3485	2520	0027829	0028	15162														
186		OBS	0010	1790	34845	2520			15162														
		STD	0020	1752	3476	2522	0027599	0056	15151														
		STD	0030	1732	3473	2525	0027412	0083	15147														
186		OBS	0030	1732	34727	2525			15147														
		STD	0050	1750	3481	2527	0027279	0138	15156														
186		OBS	0050	1750	34811	2527			15156														
		STD	0075	1746	3480	2527	0027318	0206	15159														
186		OBS	0099	1733	34798	2530			15159														
		STD	0100	1732	3480	2530	0027133	0274	15159														
		STD	0125	1705	3473	2532	0027037	0342	15154														
		STD	0150	1677	3467	2534	0026938	0409	15149														
186		OBS	0151	1676	34670	2534			15149														
		STD	0200	1329	3419	2573	0023277	0535	15041														
186		OBS	T0204	1306	34166	2575			15034														
		STD	0250	1134	3413	2606	0020197	0643	14982														
		STD	0300	0984	3409	2629	0018026	0739	14935														
186		OBS	0303	0976	34087	2630			14933														
		STD	0400	0802	3402	2652	0015873	0908	14883														
186		OBS	T0403	0797	34017	2653			14881														
		STD	0500	0619	3402	2678	0013452	1055	14828														
		STD	0600	0491	3407	2697	0011580	1180	14793														
186		OBS	0604	0487	34071	2698			14792														
		STD	0700	0439	3417	2711	0010316	1290	14789														
186		OBS	T0798	0400	34270	2723			14790														
		STD	0800	0399	3427	2723	0009182	1387	14790														
		STD	0900	0374	3435	2732	0008383	1475	14797														
186		OBS	T0991	0353	34426	2740			14805														
		STD	1000	0351	3443	2740	0007633	1555	14805														
		STD	1100	0330	3446	2745	0007257	1630	14814														
		STD	1200	0310	3448	2749	0006888	1700	14822														
		STD	1300	0293	3451	2752	0006556	1768	14832														
		STD	1400	0277	3454	2756	0006225	1831	14842														
186		OBS	T1496	0264	34565	2759			14853														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MD	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
31	1080	PW	30030N	139590W	122	09	05	19	186	1967	N06	017	4114	37	16	4	2		X1	4	4	0017
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB										
								17	515	217		200	194	8	18							
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₂ -Si μg - at/l	pH	S CCT			
		STD	0000	1824	3494	2519	0027874		0000		15171											
186		OBS	0000	1824	34944	2519					15171											
186		OBS	0009	1817	34944	2521					15171											
		STD	0010	1814	3494	2521	0027701		0028		15170											
		STD	0020	1786	3486	2522	0027659		0055		15162											
		STD	0030	1764	3480	2523	0027617		0083		15157											
186		OBS	0033	1758	34791	2523					15156											
		STD	0050	1734	3476	2527	0027282		0138		15151											
186		OBS	0051	1733	34754	2527					15151											
		STD	0075	1735	3478	2528	0027206		0206		15155											
		STD	0100	1737	3482	2530	0027100		0274		15161											
186		OBS	0103	1737	34820	2531					15161											
		STD	0125	1654	3465	2537	0026510		0341		15138											
		STD	0150	1546	3447	2548	0025536		0406		15106											
186		OBS	0154	1527	34439	2550					15101											
		STD	0200	1280	3416	2580	0022551		0526		15024											
186		OBS	T0205	1257	34137	2583					15017											
		STD	0250	1119	3412	2607	0020034		0633		14976											
		STD	0300	0982	3409	2629	0017978		0728		14935											
186		OBS	0304	0972	34090	2631					14932											
		STD	0400	0777	3402	2656	0015490		0895		14873											
186		OBS	0403		34020																	
		STD	0500	0617	3403	2679	0013330		1039		14827											
186		OBS	0597	0506	34046	2693					14798											
		STD	0600	0504	3405	2694	0011886		1165		14798											
		STD	0700	0450	3415	2708	0010595		1278		14793											
186		OBS	T0789	0411	34240	2719					14793											
		STD	0800	0407	3425	2720	0009438		1378		14793											
		STD	0900	0377	3435	2731	0008433		1467		14799											
186		OBS	T0978	0357	34411	2738					14804											
		STD	1000	0356	3442	2739	0007750		1548		14807											
		STD	1100	0352	3446	2743	0007484		1624		14823											
		STD	1200	0344	3450	2747	0007168		1698		14837											
		STD	1300	0333	3453	2750	0006888		1768		14849											
		STD	1400	0319	3455	2753	0006642		1835		14860											
186		OBS	T1462	0309	34565	2755					14867											
		STD	1500	0298	3457	2757	0006307		1900		14869											
		STD	1750	0236	3460	2764	0005481		2048		14884											
205		OBS	T1866	0215	34606	2767					14895											
		STD	2000	0203	3462	2769	0005048		2179		14913											
205		OBS	T2404	0174	34643	2773					14970											
		STD	2500	0170	3465	2774	0004600		2420		14984											
205		OBS	T2946	0156	34659	2775					15055											
		STD	3000	0155	3466	2776	0004481		2647		15064											
205		OBS	3438	0150	34676	2777					15139											
205		OBS	T3669	0150	34682	2778					15179											

TABLE III. Observed and interpolated oceanographic data for stations taken by USCGC WINONA at Ocean Station NOVEMBER, 15 June-1 July 1967, prepared from NODC Listing No. 31-1083 WI.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARSEEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	SPECIAL OBSERVATIONS				TYPE		AMT	
							COLOR CODE	TRANS. (m)	DIR.		SPEED OR FORCE	BARO- METER (mbs)					AIR TEMP. °C			VIS. CODE				NO. OBS. DEPTHS
31	1083	WI	2959 N	14007 W		087	90	06	15	218	1967	N07	001	4389	15	04	3	2		X1	7	1	0001	
										01	S05	240	192	153	7	14								
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	Σ CC							
		STD	0000	2071	3528	2480	0031534	0000	15244															
218		OBS	0000	2071	35279	2480			15244															
		STD	0010	2031	3527	2491	0030608	0031	15235															
218		OBS	0010	2031	35271	2491			15235															
		STD	0020	2029	3527	2491	0030600	0062	15236															
		STD	0030	2027	3527	2491	0030593	0092	15237															
218		OBS	0030	2027	35269	2491			15237															
		STD	0050	2027	3527	2491	0030672	0154	15240															
218		OBS	0051	2027	35268	2491			15240															
		STD	0075	1852	3506	2521	0027950	0227	15193															
218		OBS	0076	1847	35053	2521			15192															
		STD	0100	1793	3498	2529	0027215	0296	15179															
218		OBS	0102	1789	34972	2530			15178															
		STD	0125	1759	3490	2531	0027084	0364	15172															
		STD	0150	1687	3478	2539	0026384	0430	15153															
218		OBS	0154	1672	34753	2541			15149															
		STD	0200	1404	3435	2570	0023598	0555	15068															
218		OBS	T0209	1358	34296	2575			15053															
		STD	0250	1192	3419	2600	0020806	0666	15003															
		STD	0300	1027	3410	2622	0018670	0765	14951															
218		OBS	0310	0999	34086	2626			14943															
		STD	0400	0832	3404	2649	0016176	0939	14894															
218		OBS	T0413	0809	34032	2652			14888															
		STD	0500	0639	3403	2676	0013637	1088	14836															
		STD	0600	0498	3403	2693	0011962	1216	14795															
218		OBS	0615	0482	34030	2695			14791															
		STD	0700	0435	3414	2709	0010492	1329	14787															
		STD	0800	0394	3425	2722	0009288	1428	14788															
218		OBS	T0814	0389	34263	2723			14788															
		STD	0900	0374	3434	2731	0008472	1516	14797															
		STD	1000	0356	3441	2738	0007824	1598	14807															
218		OBS	T1017	0353	34420	2739			14809															
		STD	1100	0338	3447	2745	0007246	1673	14817															
		STD	1200	0320	3451	2750	0006812	1744	14827															
		STD	1300	0301	3454	2754	0006436	1810	14836															
		STD	1400	0282	3456	2757	0006129	1873	14845															
		STD	1500	0263	3456	2759	0005964	1933	14853															
218		OBS	T1528	0258	34562	2759			14856															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT			
311083		WI	30032N	140015W		123	00	06	16	187	1967	N07 002	4773	15	49	0	X		X1	6	6	0002				
						WATER		WIND		BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		(mbs)	DRY BULB					WET BULB									
								14	S04	225	198	153	7	14												
MESSANGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C									
		STD	0000	2042	3529	2489	0030728	0000	15236																	
187		OBS	0000	2042	35288	2489			15236																	
		STD	0010	2032	3529	2491	0030525	0031	15235																	
187		OBS	0010	2032	35286	2491			15235																	
		STD	0020	1992	3525	2499	0029813	0061	15225																	
		STD	0030	1951	3521	2507	0029154	0090	15215																	
187		OBS	0030	1951	35205	2507			15215																	
		STD	0050	1866	3510	2520	0027890	0147	15193																	
187		OBS	0050	1866	35103	2520			15193																	
		STD	0075	1811	3496	2523	0027701	0217	15180																	
187		OBS	0075	1811	34960	2523			15180																	
		STD	0100	1751	3491	2534	0026745	0285	15166																	
187		OBS	0101	1749	34906	2534			15165																	
		STD	0125	1744	3490	2535	0026736	0352	15168																	
		STD	0150	1681	3481	2543	0026031	0418	15152																	
187		OBS	0152	1673	34794	2544			15150																	
		STD	0200	1356	3431	2576	0022930	0540	15051																	
187		OBS	0207	1318	34257	2580			15039																	
		STD	0250	1167	3419	2604	0020350	0648	14994																	
		STD	0300	1021	3412	2625	0018422	0745	14949																	
187		OBS	0308	1001	34115	2628			14943																	
		STD	0400	0835	3404	2649	0016222	0918	14896																	
187		OBS	T0409	0819	34037	2651			14891																	
		STD	0500	0640	3404	2676	0013591	1067	14836																	
		STD	0600	0501	3404	2694	0011909	1195	14796																	
187		OBS	0610	0490	34042	2695			14794																	
		STD	0700	0445	3416	2709	0010461	1307	14791																	
		STD	0800	0406	3427	2722	0009278	1406	14793																	
187		OBS	T0805	0404	34271	2722			14793																	
		STD	0900	0381	3434	2730	0008553	1495	14800																	
		STD	1000	0357	3441	2738	0007836	1577	14808																	
187		OBS	T1006	0356	34414	2739			14808																	
		STD	1100	0335	3446	2744	0007285	1652	14816																	
		STD	1200	0314	3451	2750	0006742	1722	14824																	
		STD	1300	0295	3454	2754	0006366	1788	14833																	
		STD	1400	0277	3456	2758	0006070	1850	14843																	
		STD	1500	0260	3456	2759	0005929	1910	14852																	
187		OBS	T1516	0257	34564	2760			14854																	

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1083	WI	30064N	140080W		123	00	06	17	186	1967	N07	003	4633	15	19	2	5		X1	6	6	0003
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mb)		DRY BULB	WET BULB														
				29	S03	210	172	163	7					14									
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	DATE						
		STD	0000	2061	3530	2485	0031133	0000	15241														
186		OBS	0000	2061	35299	2485			15241														
		STD	0010	2047	3529	2488	0030884	0031	15239														
186		OBS	0010	2047	35289	2488			15239														
		STD	0020	2015	3528	2496	0030167	0062	15232														
		STD	0030	1982	3527	2504	0029439	0091	15224														
186		OBS	0030	1982	35272	2504			15224														
		STD	0050	1914	3510	2508	0029097	0150	15207														
186		OBS	0050	1914	35097	2508			15207														
		STD	0075	1821	3501	2524	0027597	0421	15183														
186		OBS	0075	1821	35007	2524			15183														
		STD	0100	1765	3493	2533	0026895	0289	15170														
186		OBS	0100	1765	34934	2533			15170														
		STD	0125	1720	3484	2536	0026620	0356	15160														
		STD	0150	1635	3470	2546	0025801	0421	15137														
186		OBS	0153	1622	34679	2547			15133														
		STD	0200	1323	3426	2579	0022648	0542	15040														
186		OBS	T0207	1287	34219	2583			15028														
		STD	0250	1163	3420	2606	0020204	0650	14993														
		STD	0300	1035	3416	2626	0018364	0746	14955														
186		OBS	0309	1014	34157	2629			14949														
		STD	0400	0836	3404	2649	0016237	0919	14896														
186		OBS	T0413	0812	34034	2652			14889														
		STD	0500	0643	3403	2676	0013669	1068	14837														
		STD	0600	0504	3404	2693	0011998	1197	14798														
186		OBS	0613	0490	34035	2694			14794														
		STD	0700	0445	3415	2709	0010536	1309	14791														
		STD	0800	0404	3426	2722	0009329	1409	14792														
186		OBS	T0808	0401	34266	2722			14792														
		STD	0900	0379	3434	2730	0008530	1498	14799														
		STD	1000	0356	3441	2738	0007824	1580	14807														
186		OBS	T1006	0355	34413	2739			14808														
		STD	1100	0335	3447	2745	0007211	1655	14816														
		STD	1200	0314	3451	2750	0006742	1725	14824														
		STD	1300	0295	3454	2754	0006366	1790	14833														
		STD	1400	0276	3456	2758	0006059	1852	14842														
187		OBS	1496	0260	34560	2759			14851														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT			
311	083	WI	29596N	140043W		087	90	06	18	177	1967	N07	004		4846	15	05	3	6		X2	6	8	0004	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
						COLOR	TRANS. 1m	DIR.	SPEED OR FORCE	METER 1mbal	DRY BULB	WET BULB													
								28	S03	210	197	166	7	14											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C								
		STO	0000	2070	3528	2481	0031494	0000	15243																
177		OBS	0000	2070	35281	2481			15243																
		STO	0010	2062	3528	2483	0031333	0031	15243																
177		OBS	0010	2062	35280	2483			15243																
		STO	0020	2053	3528	2485	0031153	0063	15242																
		STO	0030	2044	3528	2487	0030974	0094	15241																
177		OBS	0030	2044	35276	2487			15241																
		STO	0050	1887	3507	2512	0028650	0153	15199																
177		OBS	0050	1887	35068	2512			15199																
		STO	0075	1848	3507	2523	0027768	0224	15192																
177		OBS	0075	1848	35072	2523			15192																
		STO	0100	1774	3494	2531	0027032	0292	15173																
177		OBS	0100	1774	34944	2531			15173																
		STO	0125	1703	3481	2538	0026450	0359	15155																
		STO	0150	1613	3466	2548	0025606	0424	15130																
177		OBS	0152	1605	34644	2548			15127																
		STO	0200	1364	3430	2574	0023162	0546	15054																
177		OBS	T0208	1328	34259	2578			15043																
		STO	0250	1165	3417	2603	0020460	0655	14993																
		STO	0300	1010	3409	2624	0018458	0753	14945																
177		OBS	0305	0997	34086	2626			14941																
		STO	0400	0835	3404	2649	0016222	0926	14896																
177		OBS	T0405	0826	34037	2650			14893																
		STO	0500	0634	3403	2677	0013548	1075	14834																
		STO	0600	0492	3403	2694	0011882	1202	14793																
177		OBS	0609	0482	34031	2695			14790																
		STO	0700	0436	3415	2709	0010430	1314	14788																
		STO	0800	0397	3426	2722	0009248	1412	14789																
177		OBS	0808	0394	34270	2723			14789																
		STO	0900	0372	3435	2732	0008375	1500	14797																
		STO	1000	0351	3442	2740	0007692	1580	14805																
177		OBS	T1008	0349	34422	2740			14806																
		STO	1100	0331	3445	2744	0007342	1656	14814																
		STO	1200	0312	3447	2748	0006992	1727	14823																
		STO	1300	0296	3450	2751	0006680	1796	14833																
		STO	1400	0281	3453	2755	0006367	1861	14844																
		STO	1500	0268	3455	2758	0006081	1923	14855																
177		OBS	T1522	0265	34558	2759			14858																

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	1083	WI	30001N	140028W		123	00	06	19	186	1967	N07	005		4361	15	06	2	3		X1	6	7	0005
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								10	S05	228		211	170	7	13									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND SALTY-10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	Σ C							
		STD	0000	2095	3527	2473	0032232	0000	15250															
185		OBS	0000	2095	35268	2473			15250															
		STD	0010	2057	3525	2482	0031407	0032	15241															
185		OBS	0010	2057	35252	2482			15241															
		STD	0020	2025	3523	2489	0030767	0063	15234															
		STD	0030	1990	3521	2497	0030066	0093	15226															
185		OBS	0031	1986	35211	2498			15225															
		STD	0050	1876	3504	2513	0028588	0152	15195															
		STD	0075	1781	3490	2526	0027433	0222	15170															
185		OBS	0077	1776	34893	2527			15169															
		STD	0100	1746	3487	2532	0026920	0290	15164															
185		OBS	0103	1741	34864	2533			15163															
		STD	0125	1721	3481	2534	0026861	0357	15160															
		STD	0150	1652	3471	2542	0026106	0423	15142															
185		OBS	0159	1615	34657	2547			15132															
		STD	0200	1338	3430	2579	0022648	0545	15045															
185		OBS	T0211	1278	34225	2586			15026															
		STD	0250	1161	3417	2604	0020388	0653	14992															
		STD	0300	1029	3411	2623	0018630	0750	14952															
185		OBS	0311	1003	34101	2627			14944															
		STD	0400	0829	3404	2650	0016131	0924	14893															
185		OBS	T0410	0811	34033	2652			14888															
		STD	0500	0641	3403	2676	0013671	1073	14836															
		STD	0600	0503	3403	2692	0012037	1202	14797															
185		OBS	0616	0486	34027	2694			14793															
		STD	0700	0441	3415	2709	0010488	1314	14790															
		STD	0800	0398	3426	2722	0009260	1413	14790															
185		OBS	T0818	0392	34282	2725			14790															
		STD	0900	0375	3435	2732	0008410	1501	14798															
		STD	1000	0354	3442	2739	0007727	1582	14807															
185		OBS	T1020	0350	34429	2740			14808															
		STD	1100	0334	3445	2744	0007340	1657	14815															
		STD	1200	0315	3448	2748	0006997	1729	14824															
		STD	1300	0296	3450	2751	0006643	1797	14833															
		STD	1400	0278	3453	2755	0006295	1862	14843															
		STD	1500	0261	3456	2759	0005955	1923	14852															
185		OBS	T1525	0257	34565	2760			14855															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311	083	WI	2832 N	14005 W		087	80	06	20	208	1967	N07	006		4938	15	09	2	2		X1	6	2	0006
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. DBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								08	S13	231		205	172	7	14									
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	°C							
		STD	0000	2134	3528	2463	0033189	0000	15260															
208		OBS	0000	2134	35276	2463			15260															
208		OBS	0009	2106	35272	2470			15254															
		STD	0010	2105	3527	2470	0032514	0033	15254															
		STD	0020	2089	3525	2473	0032281	0065	15251															
208		OBS	0028	2070	35238	2478			15248															
		STD	0030	2063	3523	2479	0031793	0097	15246															
208		OBS	0047	2001	35186	2492			15231															
		STD	0050	1989	3518	2495	0030351	0159	15229															
208		OBS	0071	1920	35135	2509			15212															
		STD	0075	1914	3513	2510	0028944	0234	15211															
208		OBS	0096	1874	35086	2517			15203															
		STD	0100	1867	3507	2518	0028323	0305	15201															
		STD	0125	1805	3495	2524	0027798	0375	15186															
208		OBS	0146	1726	34822	2533			15165															
		STD	0150	1701	3478	2536	0026702	0443	15158															
208		OBS	T0197	1435	34369	2564			15078															
		STD	0200	1422	3436	2567	0023890	0570	15074															
		STD	0250	1217	3421	2596	0021121	0682	15011															
208		OBS	0293	1072	34124	2616			14967															
		STD	0300	1054	3412	2619	0018982	0783	14961															
208		OBS	T0387	0851	34046	2647			14900															
		STD	0400	0828	3405	2651	0016057	0958	14893															
		STD	0500	0671	3407	2674	0013813	1107	14849															
208		OBS	0580	0576	34081	2688			14824															
		STD	0600	0561	3411	2692	0012155	1237	14822															
		STD	0700	0495	3421	2708	0010695	1351	14813															
208		OBS	T0767	0460	34276	2717			14810															
		STD	0800	0449	3430	2720	0009567	1453	14812															
		STD	0900	0418	3437	2729	0008768	1544	14816															
208		OBS	T0953	0402	34402	2733			14819															
		STD	1000	0389	3443	2737	0008064	1628	14821															
		STD	1100	0363	3447	2742	0007540	1706	14828															
		STD	1200	0339	3451	2748	0007035	1779	14835															
		STD	1300	0318	3453	2752	0006709	1848	14843															
		STD	1400	0300	3454	2754	0006488	1914	14852															
208		OBS	T1458	0291	34544	2755			14858															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR,1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
31	1083	WI	30053N	140010W		123	00	06	21	171	1967	N07	007	4773	15	08	2	2		X2	6	8		0007
WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		WET BULB		VIS. CODE	NO. OF DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (unit)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB																	
			09	509	240	188	153	7	14															

MESSNGR TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ⁷	Σ Δ D DYN. M. x 10 ⁸	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SI O ₄ -S μg - dl/l	pH	S C.C.
HR I/10																	
		STD	0000	2080	3530	2480	0031585	0000	15246								
171		OBS	0000	2080	35304	2480			15246								
		STD	0010	2079	3530	2480	0031610	0032	15248								
171		OBS	0010	2079	35302	2480			15248								
		STD	0020	2031	3524	2488	0030868	0063	15236								
171		OBS	0029	1993	35196	2495			15226								
		STD	0030	1991	3519	2495	0030258	0093	15226								
171		OBS	0048	1930	35108	2505			15211								
		STD	0050	1913	3508	2507	0029195	0153	15206								
171		OBS	0073	1776	34851	2524			15168								
		STD	0075	1775	3485	2524	0027656	0224	15168								
171		OBS	0097	1752	34842	2529			15165								
		STD	0100	1746	3484	2530	0027145	0292	15164								
		STD	0125	1680	3482	2544	0025886	0359	15148								
171		OBS	0147	1595	34795	2562			15125								
		STD	0150	1575	3475	2563	0024121	0421	15119								
171		OBS	0199	1298	34208	2580			15031								
		STD	0200	1294	3421	2581	0022475	0538	15029								
		STD	0250	1130	3415	2608	0019972	0644	14980								
171		OBS	0296	1009	34100	2625			14944								
		STD	0300	1002	3410	2627	0018251	0739	14942								
171		OBS	T0396	0844	34046	2648			14898								
		STD	0400	0835	3405	2649	0016185	0912	14896								
		STD	0500	0637	3402	2676	0013670	1061	14835								
171		OBS	0593	0508	34002	2690			14798								
		STD	0600	0504	3401	2691	0012183	1190	14797								
		STD	0700	0448	3414	2707	0010645	1304	14792								
171		OBS	T0786	0410	34232	2719			14792								
		STD	0800	0406	3425	2721	0009427	1405	14793								
		STD	0900	0380	3434	2730	0008541	1494	14800								
171		OBS	T0975	0362	34395	2737			14805								
		STD	1000	0356	3441	2738	0007824	1576	14807								
		STD	1100	0334	3447	2745	0007200	1651	14815								
		STD	1200	0314	3452	2751	0006669	1721	14824								
		STD	1300	0295	3454	2754	0006366	1786	14833								
		STD	1400	0279	3455	2757	0006167	1849	14843								
171		OBS	T1480	0267	34553	2758			14852								

TABLE III.—Continued

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0	$\Sigma \Delta$ DYN. M., X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH
		STD	0000	2079	3529	2479	0031697	0000	15246							
193		OBS	0000	2079	35285	2479			15246							
193		OBS	0009	2071	35287	2481			15245							
		STD	0010	2068	3528	2481	0031487	0032	15245							
		STD	0020	2039	3525	2487	0030999	0063	15238							
193		OBS	0027	2014	35231	2492			15232							
		STD	0030	2000	3522	2495	0030266	0093	15229							
193		OBS	0044	1941	35183	2507			15214							
		STD	0050	1921	3516	2511	0028811	0153	15209							
193		OBS	0067	1865	35086	2519			15196							
		STD	0075	1839	3504	2522	0027785	0223	15189							
193		OBS	0089	1792	34974	2529			15177							
		STD	0100	1752	3497	2538	0026332	0291	15167							
		STD	0125	1660	3489	2554	0024898	0355	15143							
193		OBS	0135		34840											
		STD	0150	1565	3468	2560	0024414	0417	15115							
193		OBS	0182	1442	34404	2566			15078							
		STD	0200	1355	3434	2579	0022691	0534	15051							
		STD	0250	1151	3419	2607	0020061	0641	14988							
193		OBS	0271	1082	34146	2616			14967							
		STD	0300	1020	3411	2624	0018478	0738	14949							
193		OBS	T0361	0895	34059	2641			14912							
		STD	0400	0807	3404	2653	0015785	0909	14885							
		STD	0500	0623	3400	2675	0013668	1056	14829							
193		OBS	0542	0563	33979	2681			14811							
		STD	0600	0506	3403	2692	0012059	1185	14798							
		STD	0700	0434	3413	2708	0010555	1298	14786							
193		OBS	T0718	0424	34145	2710			14785							
		STD	0800	0405	3424	2720	0009489	1398	14792							
193		OBS	T0891	0384	34327	2729			14800							
		STD	0900	0382	3433	2729	0008639	1489	14801							
		STD	1000	0360	3441	2738	0007870	1571	14809							
		STD	1100	0339	3447	2745	0007258	1647	14818							
		STD	1200	0320	3451	2750	0006812	1717	14827							
		STD	1300	0301	3453	2753	0006509	1784	14836							
193		OBS	T1386	0285	34537	2755			14843							

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLDUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	1083	WI	30067N	139596W	122	09	06	23 190	1967	N07	009	4645	16	08	2	2		X2	6	8	0009	
		CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	WATER		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
MESSENGER TIME HR 1/10	CAST NO.						DIR.	TRANS. (m)		SPEED OF FORCE	DRY BULB				WET BULB							
						05		S10	261	194	151	7	14									
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₂ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	S CON				
		STD	0000	2078	3531	2481			0031519	0000	15246											
190	OBS	0000	2078	35306	2481					15246												
	STD	0010	2072	3531	2482			0031394	0031	15246												
190	OBS	0010	2072	35307	2482					15246												
	STD	0020	2036	3528	2490			0030706	0063	15238												
	STD	0030	1994	3523	2497			0030043	0093	15227												
190	OBS	0035	1970	35197	2501					15221												
	STD	0050	1884	3506	2513			0028636	0152	15198												
190	OBS	0054	1864	35032	2516					15193												
	STD	0075	1775	3486	2524			0027583	0222	15168												
190	OBS	0084	1755	34838	2528					15164												
	STD	0100	1757	3492	2533			0026809	0290	15168												
190	OBS	0109	1758	34936	2534					15170												
	STD	0125	1708	3482	2538			0026492	0356	15156												
	STD	0150	1618	3465	2546			0025789	0422	15131												
190	OBS	0163	1565	34565	2551					15116												
	STD	0200	1376	3431	2572			0023327	0545	15058												
190	OBS	T0219	1293	34214	2582					15032												
	STD	0250	1198	3420	2599			0020843	0655	15005												
	STD	0300	1058	3416	2622			0018757	0754	14963												
190	OBS	0325	0995	34140	2631					14944												
	STD	0400	0835	3404	2649			0016222	0929	14896												
190	OBS	T0434	0770	34018	2657					14876												
	STD	0500	0649	3402	2674			0013853	1079	14840												
	STD	0600	0509	3405	2693			0011948	1208	14800												
190	OBS	0645	0463	34075	2701					14789												
	STD	0700	0443	3414	2708			0010586	1321	14790												
	STD	0800	0410	3425	2720			0009473	1421	14795												
190	OBS	T0858	0393	34307	2726					14798												
	STD	0900	0382	3434	2730			0008565	1511	14801												
	STD	1000	0357	3441	2738			0007836	1593	14808												
190	OBS	T1068	0341	34446	2743					14813												
	STD	1100	0334	3445	2744			0007318	1669	14815												
	STD	1200	0312	3448	2748			0006955	1741	14823												
	STD	1300	0293	3450	2752			0006623	1808	14832												
	STD	1400	0275	3453	2755			0006297	1873	14841												
	STD	1500	0259	3455	2759			0005983	1934	14852												
190	OBS	T1617	0243	34579	2762					14865												

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	MARS	STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD	NODC			
CTRY	IO.	CODE	" 1/10	" 1/10	DEPTH	10"	1"	MO	DAY	HR, 1/10	CRUISE	STATION	TO	DEPTH	DIR	HGT	PER	SEA	TYPE	AMT	STATION		
CODE	NO.				INCH						NO.	NUMBER	BOTTOM	OF							NUMBER		
31	1083	WI	30032N	139598W		122	09	06	24	185	1967	N07	010	4773	13	07	3	2			0010		
						WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL					
						COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET			CODE	OBS.	DEPTHS	OBSERVATIONS					
						CODE	MM		OF	(mbs)	BULB	BULB											
								05	513	299	192	154	7	14									
MESSAGE	TIME	CAS	CAS	DEPTH	T	S	SIGMA-T	SPECIFIC VOLUME	ANOMALY- σ_t	$\Sigma \Delta \sigma_t$	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -S	pH	SCC				
HR 1/10	OF 1/10	NO.	TYPE	(m)	°C	‰				$\times 10^3$	VELOCITY		$\mu g - at/l$	$\mu g - at/l$	$\mu g - at/l$	$\mu g - at/l$	$\mu g - at/l$						
			STD	0000	2028	3514	2481	0031452	0000	15231													
185			OBS	0000	2028	35139	2481			15231													
185			OBS	0009	2021	35141	2483			15230													
			STD	0010	2020	3515	2484	0031242	0031	15230													
			STD	0020	2005	3518	2491	0030624	0062	15228													
185			OBS	0027	1989	35209	2497			15225													
			STD	0030	1980	3518	2497	0030055	0093	15223													
185			OBS	0044	1932	35099	2503			15211													
			STD	0050	1906	3509	2509	0028952	0152	15204													
185			OBS	0066	1845	35055	2522			15189													
			STD	0075	1818	3502	2526	0027431	0222	15183													
185			OBS	0088	1778	34960	2531			15172													
			STD	0100	1748	3490	2534	0026748	0290	15165													
			STD	0125	1662	3475	2543	0025961	0356	15141													
185			OBS	0131	1636	34711	2546			15134													
			STD	0150	1520	3451	2557	0024690	0419	15099													
185			OBS	0178	1372	34293	2572			15053													
			STD	0200	1293	3426	2585	0022067	0536	15030													
			STD	0250	1135	3419	2610	0019774	0641	14983													
185			OBS	0263	1099	34177	2616			14972													
			STD	0300	1017	3412	2626	0018354	0736	14948													
185			OBS	T0348	0918	34067	2638			14919													
			STD	0400	0822	3405	2651	0015988	0908	14891													
			STD	0500	0662	3400	2671	0014170	1058	14844													
185			OBS	0521	0633	33992	2674			14836													
			STD	0600	0531	3403	2689	0012368	1191	14809													
185			OBS	T0691	0448	34097	2704			14790													
			STD	0700	0445	3411	2705	0010832	1307	14791													
			STD	0800	0412	3423	2718	0009645	1409	14795													
185			OBS	T0865	0393	34298	2726			14799													
			STD	0900	0383	3432	2728	0008761	1501	14801													
			STD	1000	0357	3436	2734	0008191	1586	14807													
			STD	1100	0334	3441	2740	0007650	1665	14815													
			STD	1200	0314	3446	2746	0007141	1739	14823													
			STD	1300	0298	3450	2751	0006673	1808	14834													
185			OBS	T1348	0291	34526	2754			14839													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRAFT INCHES	MARS SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT							
31	1083	WI	30003N	140005W		123	00	06	25	186	1967	N07	011	4352	16	11	3	2		X1	6	5	0011						
					WATER		WIND		BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)		DIR.	SPEED OR FORCE	DRY BULB	WET BULB																					
						09	S16	268	184	147	7	14																	
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C												
		STD	0000	2020	3523	2490	0030612	0000	15229																				
186		OBS	0000	2020	35227	2490			15229																				
186		OBS	0009	2011	35229	2493			15228																				
		STD	0010	2011	3523	2493	0030414	0031	15229																				
		STD	0020	2006	3522	2493	0030418	0061	15229																				
		STD	0030	1986	3520	2497	0030046	0091	15225																				
186		OBS	0033	1977	35198	2499			15223																				
		STD	0050	1899	3512	2513	0028564	0150	15203																				
186		OBS	0052	1890	35106	2515			15200																				
		STD	0075	1803	3500	2528	0027222	0220	15178																				
186		OBS	0080	1787	34974	2530			15174																				
		STD	0100	1737	3489	2536	0026567	0287	15162																				
186		OBS	0103	1727	34868	2537			15159																				
		STD	0125	1601	3464	2549	0025412	0352	15121																				
		STD	0150	1468	3443	2562	0024185	0414	15081																				
186		OBS	0155	1443	34397	2565			15074																				
		STD	0200	1236	3418	2590	0021573	0528	15009																				
186		OBS	T0206	1213	34165	2594			15002																				
		STD	0250	1117	3415	2610	0019749	0631	14976																				
		STD	0300	1010	3413	2628	0018163	0726	14945																				
186		OBS	0306	0997	34123	2629			14942																				
		STD	0400	0796	3403	2654	0015710	0896	14881																				
186		OBS	0408	0781	34024	2656			14876																				
		STD	0500	0620	3403	2678	0013384	1041	14828																				
		STD	0600	0494	3404	2694	0011847	1167	14794																				
186		OBS	0613	0481	34040	2696			14790																				
		STD	0700	0439	3414	2708	0010539	1279	14789																				
		STD	0800	0400	3424	2720	0009431	1379	14790																				
186		OBS	T0824	0392	34260	2723			14791																				
		STD	0900	0375	3433	2730	0008558	1469	14798																				
		STD	1000	0353	3441	2739	0007789	1551	14806																				
186		OBS	T1031	0347	34436	2741			14809																				
		STD	1100	0333	3445	2744	0007314	1626	14815																				
		STD	1200	0314	3448	2748	0006971	1698	14824																				
		STD	1300	0295	3450	2752	0006631	1766	14833																				
		STD	1400	0278	3453	2755	0006310	1830	14843																				
		STD	1500	0262	3455	2759	0005996	1892	14853																				
186		OBS	T1578	0250	34574	2761			14861																				

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10*	1*	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	OBSERVATIONS				TYPE	AMT			
																DIR.	HGT	PER					SEA	
31	1083	WI	30002N	140000W	123	00	06	26	185	1967	N07	012	4480	16	06	2	2		X1	8	2	0012		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB												
													07					S16	264	191	168	7	14	
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S							
		STD	0000	2013	3510	2482	0031341	0000	15226															
185	OBS	0000	2013	35102	2482				15226															
	STD	0010	1998	3511	2487	0030964	0031		15224															
185	OBS	0010	1998	35107	2487				15224															
	STD	0020	1987	3514	2492	0030526	0062		15223															
	STD	0030	1976	3516	2497	0030081	0092		15222															
185	OBS	0035	1971	35178	2499				15221															
	STD	0050	1874	3508	2517	0028249	0151		15195															
185	OBS	0055	1850	35049	2520				15189															
	STD	0075	1813	3501	2527	0027385	0220		15181															
185	OBS	0085	1784	34962	2530				15174															
	STD	0100	1727	3486	2536	0026555	0288		15158															
185	OBS	0109	1687	34789	2540				15147															
	STD	0125	1580	3461	2551	0025174	0352		15115															
	STD	0150	1433	3439	2567	0023757	0413		15069															
185	OBS	0164	1361	34296	2574				15047															
	STD	0200	1218	3420	2595	0021092	0525		15004															
185	OBS	0219	1153	34160	2604				14984															
	STD	0250	1079	3413	2616	0019231	0626		14962															
	STD	0300	0968	3409	2632	0017764	0719		14930															
185	OBS	0328	0911	34068	2639				14913															
	STD	0400	0781	3402	2655	0015563	0885		14875															
185	OBS	T0438	0720	34008	2663				14857															
	STD	0500	0630	3402	2676	0013576	1031		14832															
	STD	0600	0514	3405	2693	0012039	1159		14802															
185	OBS	0653	0468	34059	2699				14792															
	STD	0700	0447	3412	2706	0010782	1273		14792															
	STD	0800	0407	3424	2720	0009512	1375		14793															
185	OBS	T0864	0386	34308	2727				14796															
	STD	0900	0377	3434	2731	0008507	1465		14799															
	STD	1000	0353	3441	2739	0007789	1546		14806															
185	OBS	T1078	0336	34458	2744				14812															
	STD	1100	0331	3446	2745	0007217	1621		14814															
	STD	1200	0311	3448	2749	0006899	1692		14823															
	STD	1300	0292	3451	2752	0006582	1759		14831															
	STD	1400	0276	3453	2755	0006301	1824		14842															
	STD	1500	0260	3455	2758	0006009	1885		14852															
185	OBS	T1640	0242	34579	2762				14868															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311083	WI	29592N	139592W	086	99	06	27	182	1967	N07	013	4389	15	06	2	3		X1	6	2	0013		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								07	514		267	190					178	7	14				
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°P	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C.C.						
		STD	0000	2001	3497	2476	0031975	0000	15221														
	182	OBS	0000	2001	34973	2476			15221														
		STD	0010	1994	3497	2477	0031849	0032	15221														
	182	OBS	0010	1994	34971	2477			15221														
		STD	0020	1995	3501	2480	0031614	0064	15223														
		STD	0030	1995	3503	2482	0031495	0095	15225														
	182	OBS	0030	1995	35033	2482			15225														
		STD	0050	1794	3503	2533	0026688	0153	15172														
	182	OBS	0050	1794	35033	2533			15172														
		STD	0075	1742	3497	2541	0025998	0219	15160														
	182	OBS	0075	1742	34973	2541			15160														
	182	OBS	0099	1742	34987	2542			15164														
		STD	0100	1738	3498	2543	0025907	0284	15163														
		STD	0125	1639	3491	2561	0024255	0347	15136														
		STD	0150	1534	3484	2579	0022554	0405	15107														
	182	OBS	0151	1530	34841	2580			15106														
		STD	0200	1306	3428	2584	0022172	0517	15034														
	182	OBS	0203	1294	34253	2585			15031														
		STD	0250	1148	3421	2609	0019860	0622	14988														
		STD	0300	1007	3415	2630	0017966	0717	14945														
	182	OBS	0302	1002	34147	2630			14943														
		STD	0400	0772	3402	2657	0015417	0084	14871														
	182	OBS	T0401	0770	34021	2657			14871														
		STD	0500	0605	3403	2680	0013202	1027	14822														
		STD	0600	0487	3404	2695	0011777	1152	14791														
	182	OBS	0605	0482	34037	2695			14789														
		STD	0700	0437	3415	2709	0010441	1263	14788														
		STD	0800	0399	3425	2721	0009345	1362	14790														
	182	OBS	T0810	0396	34260	2722			14790														
		STD	0900	0376	3434	2731	0008495	1451	14798														
		STD	1000	0355	3441	2738	0007812	1532	14807														
	182	OBS	T1014	0352	34420	2740			14808														
		STD	1100	0335	3447	2745	0007211	1608	14816														
		STD	1200	0315	3451	2750	0006754	1677	14825														
		STD	1300	0297	3455	2755	0006315	1743	14834														
		STD	1400	0279	3456	2757	0006093	1805	14843														
		STD	1500	0262	3456	2759	0005952	1865	14853														
	182	OBS	T1514	0260	34564	2759			14854														

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER	SEA		TYPE	AMT			
311	083	WI	29596N	140022W		087	90	06	28	182	1967	N07	014	4297	02	07	3	4		X1	8	7		0014
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FOFCE		DRY BULB	WET BULB												
									06	519	257	198	180	7	08									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°P	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C.C.							
		STD	0000	2014	3506	2479	0031700	0000	15226															
	182	OBS	0000	2014	35056	2479			15226															
		STD	0010	2010	3506	2480	0031635	0032	15226															
182		OBS	0010	2010	35056	2480			15226															
		STD	0020	2002	3511	2486	0031085	0063	15226															
		STD	0030	1993	3516	2492	0030540	0094	15226															
182		OBS	0034	1990	35180	2494			15226															
		STD	0050	1876	3506	2515	0028442	0153	15196															
182		OBS	0054	1852	35027	2518			15189															
		STD	0075	1761	3485	2527	0027331	0223	15164															
182		OBS	0083	1735	34796	2529			15157															
		STD	0100	1705	3474	2532	0026926	0290	15150															
182		OBS	0108	1684	34708	2535			15145															
		STD	0125	1595	3458	2545	0025718	0356	15119															
		STD	0150	1470	3441	2560	0024372	0419	15082															
182		OBS	0162	1413	34350	2568			15064															
		STD	0200	1244	3420	2590	0021577	0534	15012															
182		OBS	T0216	1178	34167	2600			14992															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311083	WI	29587N	140006W	087	90	06	29	180	1967	N07	015	4535	15	07	4	4		X2	8	8		0015	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
								07 <td>515</td> <td>221</td> <td>191</td> <td>182</td> <td>7</td> <td>14</td> <td colspan="8"></td>	515	221	191	182	7	14									
MESSENGER TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₂ -Si $\mu g - \text{at/l}$	pH					
		STO	0000	2017	3510	2482		0031428	0000	15227													
180		OBS	0000	2017	35104	2482				15227													
		STO	0010	2013	3510	2482		0031391	0031	15228													
180		OBS	0010	2013	35100	2482				15228													
		STO	0020	2013	3515	2486		0031065	0063	15230													
		STO	0030	2013	3518	2489		0030854	0094	15232													
180		OBS	0030	2013	35184	2489				15232													
		STO	0050	1984	3520	2497		0030117	0155	15227													
180		OBS	0050	1984	35195	2497				15227													
		STO	0075	1836	3503	2522		0027800	0227	15188													
180		OBS	0075	1836	35028	2522				15188													
		STO	0100	1749	3490	2534		0026756	0295	15165													
180		OBS	0100	1749	34902	2534				15165													
		STO	0125	1598	3463	2549		0025420	0360	15120													
		STO	0150	1463	3443	2563		0024081	0422	15080													
180		OBS	0151	1458	34418	2563				15078													
		STO	0200	1244	3419	2590		0021650	0537	15012													
180		OBS	T0206	1222	34173	2592				15006													
		STO	0250	1107	3415	2612		0019572	0640	14972													
		STO	0300	0989	3412	2630		0017888	0733	14938													
180		OBS	0304	0980	34113	2631				14935													
		STO	0400	0791	3403	2654		0015666	0901	14879													
180		OBS	0403	0786	34023	2655				14877													
		STO	0500	0613	3403	2679		0013299	1046	14825													
		STO	0600	0488	3404	2695		0011789	1171	14791													
180		OBS	0607	0481	34038	2696				14789													
		STO	0700	0438	3415	2709		0010453	1283	14788													
		STO	0800	0397	3425	2722		0009322	1381	14789													
180		OBS	T0804	0396	34256	2722				14789													
		STO	0900	0364	3434	2732		0008357	1470	14793													
		STO	1000	0336	3441	2740		0007587	1550	14799													
180		OBS	T1000	0336	34411	2740				14799													
		STO	1100	0312	3447	2747		0006948	1622	14806													
		STO	1200	0292	3451	2752		0006490	1689	14815													
		STO	1300	0277	3454	2756		0006159	1753	14825													
		STO	1400	0267	3456	2759		0005954	1813	14838													
		STO	1500	0261	3456	2759		0005940	1873	14852													
180		OBS	T1515	0260	34560	2759				14855													

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	ORBIT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'AMP'L'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311083	W1	29561N	139554W		086	99	06	30	198	1967	N07	016	4435	15	08	2	4		X1	6	7		0016
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB												
							04	503	190	199	178	7											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T			SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C			
		STD	0000	2014	3483	2462			0033309		0000	15223											
194		OBS	0000	2014	34834	2462						15223											
		STD	0010	1995	3486	2468			0032707		0033	15220											
194		OBS	0010	1995	34856	2468						15220											
		STD	0020	2004	3509	2484			0031273		0065	15227											
		STD	0030	2013	3521	2491			0030673		0096	15232											
194		OBS	0030	2013	35209	2491						15232											
		STD	0050	1909	3510	2509			0028953		0156	15205											
194		OBS	0050	1909	35100	2509						15205											
		STD	0075	1821	3501	2524			0027597		0226	15183											
194		OBS	0075	1821	35007	2524						15183											
		STD	0100	1763	3493	2533			0026863		0294	15170											
194		OBS	0100	1763	34932	2533						15170											
		STD	0125	1585	3462	2551			0025209		0359	15116											
		STD	0150	1430	3438	2566			0023769		0421	15068											
194		OBS	0152		34361																		
		STD	0200	1191	3408	2591			0021476		0534	14993											
194		OBS	T0206	1168	34058	2594						14985											
		STD	0250	1093	3409	2610			0019739		0637	14967											
		STD	0300	1000	3413	2630			0017967		0731	14942											
194		OBS	0305	0990	34138	2632						14939											
		STD	0400	0788	3402	2654			0015666		0899	14877											
194		OBS	0405	0778	34018	2656						14874											
		STD	0500	0613	3403	2679			0013292		1044	14825											
		STD	0600	0489	3405	2695			0011742		1169	14792											
194		OBS	0610	0479	34046	2697						14789											
		STD	0700	0434	3416	2710			0010332		1280	14787											
		STD	0800	0395	3426	2723			0009225		1377	14785											
194		OBS	T0816	0390	34276	2724						14789											
		STD	0900	0374	3435	2732			0008398		1465	14797											
		STD	1000	0356	3442	2739			0007750		1546	14807											
194		OBS	T1016	0353	34429	2740						14800											
		STD	1100	0337	3445	2744			0007367		1622	14816											
		STD	1200	0319	3448	2747			0007029		1694	14826											
		STD	1300	0300	3451	2751			0006674		1762	14835											
		STD	1400	0281	3453	2755			0006316		1827	14844											
		STD	1500	0262	3456	2759			0005952		1889	14853											
198		OBS	1528	0257	34568	2760						14856											

TABLE III.—Continued

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'EMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
						10"		1"		MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311083	WI		29548N	139594W	086 99	07	01	190	1967	N07	017	4572	15	03	2	3			X2	6	8		0017		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								04	S14	221	196	171	6	14											
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₂ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -S $\mu g - dl/l$	pH	S	C							
		STD	0000	21.2	35.31	2470	0032563	0000	15257																
		OBS	0000	21.20	35.312	2470			15257																
		STD	0010	21.4	35.30	2473	0032278	0032	15254																
19		OBS	0010	21.04	35.299	2473			15254																
		STD	0020	21.23	35.28	2478	0031624	0064	15232																
		STD	0030	19.38	34.90	2486	0031066	0096	15218																
19		OBS	0030	19.38	34.897	2486			15218																
		STD	0050	17.60	34.67	2514	0028506	0155	15158																
19		OBS	0050	17.60	34.674	2514			15158																
		STD	0075	17.47	34.76	2524	0027650	0226	15159																
19		OBS	0075	17.46	34.764	2524			15159																
		STD	0100	17.44	34.81	2528	0027317	0294	15163																
19		OBS	0100	17.41	34.813	2529			15163																
		STD	0125	16.40	34.62	2538	0026417	0362	15133																
		STD	0150	15.25	34.44	2551	0025307	0426	15099																
19		OBS	0150	15.01	34.417	2553			15099																
		STD	0200	12.65	34.13	2581	0022435	0546	15012																
19		OBS	0200	12.26	34.04	2586			15012																
		STD	0250	11.10	34.00	2607	0020166	0652	14972																
		STD	0300	09.84	34.00	2628	0018100	0747	14935																
19		OBS	0300	09.56	34.072	2632			14935																
		STD	0400	07.86	34.00	2655	0016637	0916	14877																
19		OBS	0400	07.60	34.015	2658			14877																
		STD	0500	06.24	34.02	2677	0013519	1062	14830																
		STD	0600	05.04	34.05	2694	0011688	1129	14798																
19		OBS	0600	04.87	34.063	2697			14798																
		STD	0700	04.42	34.15	2709	0010500	1301	14790																
		STD	0800	04.00	34.24	2720	0009431	1401	14790																
		OBS	0800	03.94	34.258	2722			14791																
		STD	0900	03.78	34.33	2730	0008592	1401	14799																
		STD	1000	03.58	34.41	2738	0007847	1503	14818																
		OBS	1020	03.54	34.422	2739			14817																
		STD	1100	03.38	34.47	2745	0007246	1648	14817																
		STD	1200	03.19	34.52	2751	0006727	1718	14826																
		STD	1300	03.00	34.55	2755	0006350	1784	14835																
		STD	1400	02.82	34.56	2757	0006129	1846	14845																
		STD	1500	02.63	34.56	2759	0005964	1906	14852																
		OBS	1528	02.58	34.552	2759			14856																

TABLE IV. Observed and interpolated oceanographic data for stations taken by USCGC PONT-CHARTRAIN at Ocean Station NOVEMBER, 23 July-13 August 1967, prepared from NODC Listing No. 31-1142 PW.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
31	1142	PW	3005 N	140015W	123	00	07	23	208	1967	N09	001	4297	15	09	2				6	6		0001
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
					09	507	230	217	206	7	14												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	2065	3476	2442	0035167		0000	15236													
208		OBS	0000	2065	34756	2442				15236													
		STD	0010	2046	3475	2447	0034798		0035	15232													
208		OBS	0010	2046	34745	2447				15232													
		STD	0020	1944	3476	2474	0032172		0068	15206													
		STD	0030	1855	3478	2498	0029939		0100	15183													
208		OBS	0031		34776																		
		STD	0050	1717	3443	2506	0029295		0159	15142													
208		OBS	0051	1712	34419	2506				15140													
		STD	0075	1623	3436	2522	0027812		0230	15117													
208		OBS	0077	1618	34351	2523				15115													
		STD	0100	1603	3441	2531	0027056		0299	15115													
208		OBS	0103	1599	34415	2532				15115													
		STD	0125	1532	3435	2542	0026039		0365	15096													
		STD	0150	1445	3426	2554	0024952		0429	15072													
208		OBS	0156	1422	34232	2557				15065													
		STD	0200	1224	3401	2579	0022596		0548	15003													
208		OBS	0210	1187	33978	2584				14992													
		STD	0250	1097	3402	2604	0020338		0655	14967													
		STD	0300	0992	3408	2627	0018247		0751	14938													
208		OBS	0311	0970	34090	2631				14932													
		STD	0400	0807	3401	2651	0016022		0923	14885													
208		OBS	T0415	0781	34006	2654				14877													
		STD	0500	0626	3403	2677	0013501		1070	14830													
		STD	0600	0493	3405	2695	0011760		1197	14793													
208		OBS	0618	0475	34053	2698				14789													
		STD	0700	0435	3415	2710	0010418		1308	14787													
		STD	0800	0396	3426	2722	0009237		1406	14789													
208		OBS	T0817	0391	34273	2724				14790													
		STD	0900	0374	3434	2731	0008472		1494	14797													
		STD	1000	0353	3441	2739	0007789		1576	14806													
208		OBS	T1017	0350	34421	2740				14808													
		STD	1100	0334	3447	2745	0007200		1651	14815													
		STD	1200	0314	3451	2750	0006742		1720	14824													
		STD	1300	0296	3454	2754	0006377		1786	14834													
		STD	1400	0278	3455	2757	0006155		1849	14843													
		STD	1500	0260	3455	2758	0006002		1909	14852													
208		OBS	T1524	0256	34551	2759				14854													

TABLE IV.—Continued

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIRECTION	MARS SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	OBSERVATIONS				TYPE	AMT						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbs)				AIR TEMP. °C			DRY BULB			WET BULB		VIS. CODE	NO. OBS. DEPTHS		SPECIAL OBSERVATIONS
311142		PW	2951 N	13950 W		086	99	07	24	191	1967	N09	002		3750	15	11	1				6	5		0002
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
									17	506	230	244	222	8	14										
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	SiO ₂ -Si $\mu\text{g} - \text{ml/l}$	pH	S C C							
		STD	0000	2097	3480	2437	0035657		0000	15245															
191	OBS	0000	2097	34802	2437					15245															
191	OBS	0009	2075	34794	2442					15241															
	STD	0010	2075	3480	2443	0035162	0035		15241																
	STD	0020	2071	3482	2445	0034970	0070		15242																
191	OBS	0029	2068	34833	2447					15242															
	STD	0030	2053	3482	2450	0034504	0105		15238																
191	OBS	0049	1830	34633	2494					15177															
	STD	0050	1824	3462	2494	0030394	0170		15176																
191	OBS	0073	1726	34493	2508					15149															
	STD	0075	1726	3450	2509	0029070	0244		15149																
191	OBS	0098	1709	34569	2518					15149															
	STD	0100	1709	3456	2518	0028303	0316		15149																
	STD	0125	1677	3448	2519	0028233	0387		15143																
191	OBS	0149	1594	34409	2533					15120															
	STD	0150	1586	3440	2534	0026908	0456		15118																
	STD	0200	1247	3398	2573	0023245	0581		15011																
191	OBS	0201	1242	33978	2574					15009															
	STD	0250	1094	3403	2605	0020227	0690		14966																
	STD	0300	0966	3408	2631	0017783	0785		14929																
191	OBS	0305	0955	34088	2634					14926															
	STD	0400	0781	3402	2656	0015541	0951		14875																
191	OBS	T0402	0778	34022	2656					14874															
	STD	0500	0614	3403	2679	0013349	1096		14826																
191	OBS	0598	0497	34028	2693					14794															
	STD	0600	0496	3403	2693	0011937	1222		14794																
	STD	0700	0443	3414	2708	0010586	1335		14790																
191	OBS	T0792	0404	34230	2719					14790															
	STD	0800	0402	3424	2720	0009454	1435		14791																
	STD	0900	0373	3433	2730	0008535	1525		14797																
	STD	1000	0347	3441	2739	0007720	1606		14803																
191	OBS	T1006	0346	34418	2740					14804															
	STD	1100	0324	3445	2744	0007255	1681		14811																
	STD	1200	0304	3448	2749	0006863	1752		14819																
	STD	1300	0286	3451	2753	0006498	1819		14829																
	STD	1400	0271	3454	2757	0006155	1882		14840																
191	OBS	T1491	0260	34567	2760					14851															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIREC INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR,1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
311	142	PW	29595N	139570W		086	99	07	25	200	1967	N09 003	4023	15	08	2			617		0003	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB											
								02	S05	247	217	206	7	14								
MESSNGR TIME HR 1/10	CAS NO.	CAS TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^2	$\Sigma \Delta \sigma$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -S µg - at/l	pH	S CC					
		STD	0000	2095	3471	2430	0036307	0000	15243													
200		OBS	0000	2095	34705	2430			15243													
		STD	0010	2084	3470	2433	0036088	0036	15242													
200		OBS	0010	2084	34701	2433			15242													
		STD	0020	2070	3471	2437	0035700	0072	15240													
		STD	0030	2023	3472	2451	0034474	0107	15229													
200		OBS	0030	2023	34719	2451			15229													
		STD	0050	1827	3472	2501	0029717	0171	15178													
200		OBS	0050	1827	34723	2501			15178													
		STD	0075	1706	3455	2518	0028236	0244	15144													
200		OBS	0075	1706	34552	2518			15144													
		STD	0100	1687	3459	2525	0027602	0314	15143													
200		OBS	0100	1687	34591	2525			15143													
		STD	0125	1621	3449	2533	0026943	0382	15126													
		STD	0150	1527	3437	2545	0025860	0448	15099													
200		OBS	0152	1518	34358	2546			15097													
		STD	0200	1247	3406	2579	0022659	0569	15012													
200		OBS	0205	1224	34044	2582			15004													
		STD	0250	1091	3408	2610	0019807	0675	14966													
		STD	0300	0966	3408	2631	0017805	0769	14929													
200		OBS	0305	0955	34084	2633			14926													
		STD	0400	0789	3401	2653	0015755	0937	14878													
200		OBS	T0412	0770	34006	2656			14872													
		STD	0500	0628	3402	2676	0013586	1084	14831													
		STD	0600	0507	3403	2692	0012064	1212	14799													
200		OBS	0610	0497	34032	2693			14796													
		STD	0700	0441	3415	2709	0010488	1325	14790													
		STD	0800	0395	3425	2722	0009299	1424	14788													
200		OBS	T0816	0389	34270	2724			14789													
		STD	0900	0373	3434	2731	0008461	1513	14797													
		STD	1000	0354	3442	2739	0007727	1593	14807													
200		OBS	T1015	0351	34430	2740			14808													
		STD	1100	0335	3445	2744	0007337	1669	14816													
		STD	1200	0316	3448	2748	0006979	1740	14825													
		STD	1300	0298	3451	2752	0006636	1808	14834													
		STD	1400	0279	3454	2755	0006277	1873	14843													
		STD	1500	0261	3456	2759	0005918	1934	14853													
200		OBS	T1520	0257	34568	2760			14854													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INDCT	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT				
311	142	PW	3007 N	139578W		122	09	07	26	188	1967	N09	004	4755	15	08	2				6	7	0004			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB															
								09	S06	254	228	222	8	13												
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S CC								
		STD	0000	2092	3478	2437	0035672		0000	15244																
188		OBS	0000	2092	34782	2437				15244																
		STD	0010	2085	3478	2439	0035513		0036	15243																
186		OBS	0010	2085	34784	2439				15243																
		STD	0020	1996	3470	2456	0033898		0070	15220																
		STD	0030	1915	3463	2472	0032439		0103	15198																
		STD	0050	1776	3451	2497	0030105		0166	15160																
188		OBS	0050	1776	34505	2497				15160																
		STD	0075	1646	3440	2520	0027998		0239	15124																
188		OBS	0075	1646	34400	2520				15124																
		STD	0100	1660	3454	2528	0027338		0308	15134																
186		OBS	0100	1660	34544	2528				15134																
		STD	0125	1525	3442	2549	0025380		0374	15095																
		STD	0150	1403	3429	2565	0023880		0435	15058																
188		OBS	0152		34278																					
		STD	0200	1197	3403	2586	0021952		0550	14994																
186		OBS	0205	1179	34015	2588				14989																
		STD	0250	1057	3403	2612	0019559		0654	14953																
		STD	0300	0940	3406	2633	0017568		0746	14919																
188		OBS	0305	0929	34057	2635				14916																
		STD	0400	0761	3401	2657	0015346		0911	14867																
188		OBS	T0410	0745	34003	2659				14862																
		STD	0500	0598	3403	2681	0013133		1053	14819																
		STD	0600	0481	3405	2697	0011601		1177	14788																
188		OBS	0610	0472	34054	2698				14786																
		STD	0700	0434	3416	2710	0010332		1287	14787																
		STD	0800	0399	3427	2723	0009197		1384	14790																
188		OBS	T0812	0395	34278	2724				14791																
		STD	0900	0372	3435	2732	0008375		1472	14797																
		STD	1000	0349	3443	2741	0007595		1552	14805																
188		OBS	T1012	0346	34434	2741				14805																
		STD	1100	0327	3446	2745	0007215		1626	14812																
		STD	1200	0307	3448	2749	0006853		1697	14821																
		STD	1300	0290	3451	2753	0006529		1763	14831																
		STD	1400	0275	3454	2756	0006216		1827	14841																
		STD	1500	0261	3456	2759	0005918		1888	14853																
188		OBS	T1518	0259	34568	2760				14855																

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDCTR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT		
311	142	PW	2959 N	13956 W		086	99	07	27	195	1967	N09	005		4389	15	11	2				6	6		0005
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
										224	217	211	7					14							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDALTY-2107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C							
		STD	0000	2084	3471	2434	0035995		0000	15241															
195		OBS	0000	2084	34709	2434				15241															
195		OBS	0009	2076	34706	2435				15240															
		STD	0010	2076	3471	2436	0035815		0036	15240															
		STD	0020	2074	3471	2436	0035812		0072	15241															
195		OBS	0029	2073	34736	2439				15243															
		STD	0030	2067	3475	2441	0035369		0107	15241															
195		OBS	0049	1920	34854	2488				15205															
		STD	0050	1904	3482	2489	0030861		0174	15201															
195		OBS	0073	1660	34389	2516				15128															
		STD	0075	1662	3440	2516	0028354		0248	15129															
195		OBS	0098	1669	34530	2525				15136															
		STD	0100	1666	3453	2525	0027569		0317	15136															
		STD	0125	1626	3453	2535	0026764		0385	15128															
195		OBS	0149	1588	34459	2538				15119															
		STD	0150	1582	3445	2538	0026457		0452	15117															
		STD	0200	1302	3411	2572	0023339		0576	15031															
195		OBS	T0202	1292	34098	2573				15028															
		STD	0250	1117	3409	2606	0020182		0685	14975															
		STD	0300	0966	3408	2631	0017775		0780	14929															
195		OBS	0305	0953	34083	2634				14925															
195		OBS	T0397	0763	34002	2657				14867															
		STD	0400	0758	3400	2657	0015355		0946	14866															
		STD	0500	0602	3403	2680	0013192		1088	14821															
		STD	0600	0489	3405	2696	0011719		1213	14792															
195		OBS	0601	0488	34048	2696				14791															
		STD	0700	0432	3416	2711	0010309		1323	14786															
195		OBS	T0799	0392	34262	2723				14787															
		STD	0800	0392	3426	2723	0009166		1421	14787															
		STD	0900	0375	3434	2731	0008484		1509	14798															
		STD	1000	0358	3442	2739	0007798		1590	14808															
195		OBS	1001	0358	34418	2739				14808															
		STD	1100	0340	3447	2745	0007269		1666	14818															
		STD	1200	0321	3452	2750	0006750		1736	14827															
		STD	1300	0301	3455	2755	0006362		1801	14836															
		STD	1400	0281	3456	2757	0006117		1864	14844															
		STD	1500	0259	3457	2760	0005858		1923	14852															
195		OBS	T1500	0259	34568	2760				14852															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311	142	PW	3003 N	139585W	122	09	07	29	004	1967	N09	006	4535	15	04	1				6	6		0006
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB														
				09	S09	213		233	217	7	14												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C						
		STD	0000	2120	3472	2425	0036817	0000	15250														
004		OBS	0000	2120	34724	2425			15250														
		STD	0010	2090	3472	2433	0036084	0036	15244														
004		OBS	0010	2090	34723	2433			15244														
		STD	0020	2072	3488	2450	0034520	0072	15243														
		STD	0030	2054	3489	2455	0034059	0106	15239														
004		OBS	0030	2054	34885	2455			15239														
		STD	0050	1749	3445	2499	0029881	0170	15152														
004		OBS	0050	1749	34450	2499			15152														
		STD	0075	1685	3451	2519	0028053	0242	15137														
004		OBS	0075	1685	34512	2519			15137														
		STD	0100	1704	3468	2528	0027339	0312	15149														
004		OBS	0100	1704	34680	2528			15149														
		STD	0125	1627	3454	2535	0026711	0379	15128														
		STD	0150	1522	3438	2546	0025681	0445	15098														
004		OBS	0151	1517	34378	2547			15096														
		STD	0200	1216	3402	2582	0022375	0565	15001														
004		OBS	T0204	1196	34006	2584			14994														
		STD	0250	1073	3406	2611	0019642	0670	14959														
		STD	0300	0954	3408	2633	0017610	0763	14924														
004		OBS	0303	0947	34082	2634			14922														
		STD	0400	0759	3400	2657	0015376	0928	14866														
004		OBS	T0402	0756	34000	2657			14865														
		STD	0500	0603	3403	2680	0013183	1071	14821														
		STD	0600	0490	3406	2696	0011665	1195	14792														
004		OBS	0604	0486	34058	2697			14791														
		STD	0700	0433	3416	2711	0010320	1305	14786														
		STD	0800	0393	3426	2723	0009210	1403	14788														
004		OBS	T0800	0393	34259	2723			14788														
		STD	0900	0374	3435	2732	0008398	1491	14797														
004		OBS	T0991	0357	34420	2739			14806														
		STD	1000	0355	3442	2739	0007716	1571	14807														
		STD	1100	0336	3445	2744	0007356	1647	14816														
		STD	1200	0317	3448	2748	0006991	1718	14825														
		STD	1300	0298	3451	2752	0006622	1786	14834														
		STD	1400	0279	3454	2756	0006248	1851	14843														
		STD	1500	0260	3457	2760	0005870	1911	14852														
004		OBS	T1500	0260	34568	2760			14852														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
311	142					PW	30049N	14003 W	123	00		07	29			192	1967	N09	007		4297	15		07	2		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB															
								05	S11		234	222					206	7	14								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SIO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CODE										
		STD	0000	2087	3471	2433	0036057	0000	15241																		
192		OBS	0000	2087	34711	2433			15241																		
192		OBS	0009	2085	34711	2433			15242																		
		STD	0010	2085	3473	2435	0035897	0036	15243																		
		STD	0020	2082	3486	2446	0034925	0071	15245																		
192		OBS	0028	2080	34932	2452			15247																		
		STD	0030	2079	3496	2454	0034157	0106	15247																		
192		OBS	0047	2005	34983	2475			15230																		
		STD	0050	1954	3489	2482	0031580	0172	15216																		
192		OBS	0071	1708	34464	2510			15143																		
		STD	0075	1701	3447	2512	0028720	0247	15142																		
192		OBS	0095	1659	34473	2523			15132																		
		STD	0100	1649	3447	2525	0027632	0317	15130																		
		STD	0125	1583	3441	2535	0026696	0385	15113																		
192		OBS	0145	1509	34341	2546			15092																		
		STD	0150	1478	3430	2550	0025341	0450	15083																		
192		OBS	T0196	1236	34031	2579			15007																		
		STD	0200	1224	3404	2582	0022376	0570	15004																		
		STD	0250	1085	3408	2611	0019703	0675	14964																		
192		OBS	0290	0985	34083	2628			14934																		
		STD	0300	0963	3407	2631	0017830	0769	14927																		
192		OBS	T0384	0789	34004	2653			14875																		
		STD	0400	0756	3401	2658	0015296	0934	14865																		
		STD	0500	0582	3402	2683	0012949	1076	14813																		
192		OBS	0580	0484	34036	2695			14786																		
		STD	0600	0472	3406	2698	0011427	1197	14785																		
		STD	0700	0423	3417	2712	0010130	1305	14782																		
192		OBS	T0774	0395	34250	2722			14784																		
		STD	0800	0390	3428	2725	0009019	1401	14787																		
		STD	0900	0370	3436	2733	0008278	1488	14796																		
192		OBS	T0964	0358	34412	2738			14802																		
		STD	1000	0351	3444	2741	0007544	1567	14806																		
		STD	1100	0332	3449	2747	0007029	1639	14815																		
		STD	1200	0313	3453	2752	0006583	1708	14824																		
		STD	1300	0295	3456	2756	0006218	1772	14833																		
		STD	1400	0277	3456	2758	0006070	1833	14843																		
192		OBS	T1466	0265	34561	2759			14849																		

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSEEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	142	PW	3008 N	14006 W		123	00	07	30	199	1967	N09	008		4297	15	07	1				6	6	0008
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
								07	504	240	250	228	7					14						
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C						
		STD	0000	2117	3474	2427	0036645		0000	15250														
199		OBS	0000	2117	34737	2427				15250														
		STD	0010	2109	3475	2430	0036394		0037	15249														
199		OBS	0010	2109	34748	2430				15249														
		STD	0020	2006	3474	2457	0033859		0072	15223														
199		OBS	0029		34722																			
		STD	0030	1919	3472	2478	0031884		0105	15200														
199		OBS	0049	1796	34657	2504				15168														
		STD	0050	1792	3465	2504	0029424		0166	15167														
199		OBS	0074	1719	34615	2519				15149														
		STD	0075	1719	3462	2520	0028037		0238	15149														
199		OBS	0099	1699	34662	2528				15147														
		STD	0100	1696	3466	2528	0027303		0307	15147														
		STD	0125	1615	3453	2537	0026520		0374	15124														
		STD	0150	1518	3439	2548	0025509		0439	15097														
199		OBS	0150	1518	34392	2548				15097														
		STD	0200	1272	3409	2576	0022911		0560	15021														
199		OBS	T0203	1259	34083	2578				15017														
		STD	0250	1115	3409	2606	0020176		0668	14974														
		STD	0300	0981	3409	2630	0017962		0763	14934														
199		OBS	0302	0976	34092	2630				14933														
		STD	0400	0770	3401	2656	0015462		0930	14870														
199		OBS	T0402	0766	34010	2657				14869														
		STD	0500	0607	3403	2680	0013250		1074	14823														
		STD	0600	0491	3404	2695	0011788		1199	14792														
199		OBS	0604	0487	34043	2695				14791														
		STD	0700	0436	3415	2709	0010430		1310	14788														
		STD	0800	0396	3425	2722	0009311		1409	14789														
199		OBS	T0802	0395	34254	2722				14789														
		STD	0900	0376	3433	2730	0008540		1498	14798														
		STD	1000	0357	3442	2739	0007791		1580	14808														
199		OBS	1005	0356	34420	2739				14808														
		STD	1100	0338	3445	2743	0007409		1656	14817														
		STD	1200	0319	3448	2747	0007044		1728	14826														
		STD	1300	0300	3451	2751	0006667		1797	14835														
		STD	1400	0281	3454	2755	0006293		1861	14844														
		STD	1500	0263	3457	2759	0005920		1923	14853														
199		OBS	T1504	0262	34567	2760				14854														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1142	PW	30059N	140010W		123	00	07	31	184	1967	N09	009	4472	15	09	1				6	7	0009
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
								11	507	230		228	206	7	14								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma t/l$	TOTAL-P $\mu g - \sigma t/l$	NO ₂ -N $\mu g - \sigma t/l$	NO ₃ -N $\mu g - \sigma t/l$	SiO ₄ -Si $\mu g - \sigma t/l$	pH					
		STD	0000	2140	3478	2423		0036970		0000	15256												
184		OBS	0000	2140	34775	2423					15256												
		STD	0010	2131	3478	2426		0036771		0037	15255												
184		OBS	0010	2131	34775	2426					15255												
		STD	0020	2032	3466	2444		0035094		0073	15229												
		STD	0030	1956	3461	2460		0033576		0107	15210												
184		OBS	0030	1956	34612	2460					15210												
		STD	0050	1870	3471	2490		0030823		0172	15190												
184		OBS	0050	1870	34712	2490					15190												
		STD	0075	1756	3465	2513		0028669		0246	15160												
184		OBS	0076	1753	34646	2513					15159												
		STD	0100	1726	3470	2524		0027695		0316	15156												
184		OBS	0101	1724	34702	2525					15156												
		STD	0125	1604	3449	2537		0026570		0384	15121												
		STD	0150	1481	3430	2549		0025403		0449	15084												
184		OBS	0153	1467	34283	2551					15080												
		STD	0200	1245	3406	2579		0022621		0569	15011												
184		OBS	T0207	1216	34038	2583					15002												
		STD	0250	1084	3405	2608		0019906		0676	14963												
		STD	0300	0955	3407	2632		0017736		0770	14924												
184		OBS	0308	0936	34067	2635					14919												
		STD	0400	0773	3401	2656		0015520		0936	14871												
184		OBS	T0412	0753	34007	2658					14866												
		STD	0500	0605	3401	2679		0013343		1080	14822												
		STD	0600	0483	3405	2696		0011632		1205	14789												
184		OBS	0615	0469	34064	2699					14786												
		STD	0700	0429	3416	2711		0010274		1315	14785												
		STD	0800	0392	3427	2724		0009116		1412	14787												
184		OBS	T0814	0388	34278	2725					14788												
		STD	0900	0372	3435	2732		0008375		1499	14797												
		STD	1000	0353	3442	2739		0007715		1580	14806												
184		OBS	T1015	0350	34430	2741					14807												
		STD	1100	0334	3448	2746		0007126		1654	14816												
		STD	1200	0316	3452	2751		0006692		1723	14825												
		STD	1300	0298	3455	2755		0006327		1788	14835												
		STD	1400	0280	3457	2758		0006032		1850	14844												
		STD	1500	0262	3457	2760		0005879		1909	14853												
184		OBS	T1528	0257	34572	2760					14856												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- TH- ER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311142	PW	30037N	140007W	123	00	08	01	195	1967	N09	010	4297	15	14	0				7	2	0010
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB															
			12	S06	230	239	211	7	14												
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³		Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S	C		
		STD	0000	2160	3473	2414	0037835		0000	15261											
195		OBS	0000	2160	34728	2414				15261											
		STD	0010	2140	3472	2419	0037433		0038	15257											
195		OBS	0010	2140	34716	2419				15257											
		STD	0020	2137	3493	2436	0035830		0074	15260											
		STD	0030	2133	3502	2444	0035132		0110	15262											
195		OBS	0030	2133	35019	2444				15262											
		STD	0050	1917	3480	2484	0031331		0176	15204											
195		OBS	0050	1917	34799	2484				15204											
		STD	0075	1741	3459	2512	0028759		0251	15155											
195		OBS	0076	1737	34586	2513				15154											
		STD	0100	1700	3461	2523	0027786		0322	15147											
195		OBS	0101	1698	34607	2524				15147											
		STD	0125	1610	3446	2533	0026920		0390	15122											
		STD	0150	1499	3432	2547	0025634		0456	15090											
195		OBS	0154	1480	34296	2549				15084											
		STD	0200	1210	3407	2587	0021898		0575	14999											
195		OBS	T0207	1176	34052	2592				14988											
		STD	0250	1058	3406	2614	0019407		0678	14954											
		STD	0300	0936	3406	2635	0017453		0770	14917											
195		OBS	0309	0916	34063	2638				14911											
		STD	0400	0746	3400	2659	0015204		0934	14861											
195		OBS	T0411	0728	33999	2661				14856											
		STD	0500	0599	3400	2679	0013339		1076	14819											
		STD	0600	0491	3404	2695	0011803		1202	14792											
195		OBS	0616	0477	34053	2697				14789											
		STD	0700	0436	3415	2709	0010430		1313	14788											
		STD	0800	0397	3425	2722	0009322		1412	14789											
195		OBS	T0816	0392	34267	2723				14790											
		STD	0900	0375	3435	2732	0008410		1501	14798											
		STD	1000	0356	3442	2739	0007750		1581	14807											
195		OBS	T1014	0353	34433	2740				14809											
		STD	1100	0337	3446	2744	0007338		1657	14817											
		STD	1200	0318	3448	2748	0006988		1728	14826											
		STD	1300	0300	3451	2752	0006645		1797	14835											
		STD	1400	0282	3454	2755	0006298		1861	14844											
		STD	1500	0264	3456	2759	0005946		1923	14854											
195		OBS	T1525	0260	34571	2760				14856											

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	1142	PW	3004 N	14002 W		123	00	08	02	192	1967	N09	011	4381	15	13	1				3	2		0011		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB														
								09	S05	234	256	222	7					14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC								
		STD	0000	2175	3477	2413	0037956		0000	15265																
192		OBS	0000	2175	34766	2413				15265																
		STD	0010	2143	3478	2423	0037027		0037	15259																
192		OBS	0010	2143	34783	2423				15259																
		STD	0020	2149	3510	2446	0034921		0073	15265																
		STD	0030	2154	3525	2455	0034024		0108	15270																
192		OBS	0031	2155	35261	2456				15271																
		STD	0050	2025	3506	2476	0032126		0174	15237																
192		OBS	0051	2017	35050	2477				15235																
		STD	0075	1770	3468	2512	0028775		0250	15165																
192		OBS	0076	1764	34671	2513				15163																
		STD	0100	1729	3469	2523	0027837		0321	15157																
192		OBS	0102	1725	34693	2524				15156																
		STD	0125	1678	3462	2529	0027266		0390	15145																
		STD	0150	1590	3449	2540	0026340		0457	15120																
192		OBS	0154	1573	34466	2542				15115																
		STD	0200	1283	3407	2573	0023267		0581	15024																
192		OBS	T0209	1236	34022	2578				15009																
		STD	0250	1090	3404	2606	0020106		0689	14965																
		STD	0300	0943	3406	2633	0017617		0784	14920																
192		OBS	0308	0922	34058	2637				14913																
		STD	0400	0749	3400	2658	0015269		0948	14862																
192		OBS	T0408	0735	33992	2660				14858																
		STD	0500	0594	3400	2679	0013274		1091	14817																
		STD	0600	0482	3405	2696	0011620		1215	14789																
192		OBS	0612	0471	34062	2699				14786																
		STD	0700	0429	3417	2712	0010199		1324	14785																
		STD	0800	0391	3427	2724	0009105		1421	14787																
192		OBS	T0811	0388	34279	2725				14788																
		STD	0900	0371	3435	2732	0008363		1508	14796																
		STD	1000	0352	3442	2740	0007704		1589	14806																
192		OBS	T1010	0350	34425	2740				14807																
		STD	1100	0333	3445	2744	0007336		1664	14815																
		STD	1200	0315	3448	2748	0006990		1735	14824																
		STD	1300	0297	3451	2752	0006640		1804	14834																
		STD	1400	0280	3453	2755	0006296		1868	14843																
		STD	1500	0263	3456	2759	0005949		1929	14853																
192		OBS	T1516	0260	34566	2760				14855																

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAZEN INCH	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	1142	PW	2828 N	14003 W		087	80	08	04	003	1967	N09	012	4755	13	11	1				6	5	0012
WATER						WIND		BARO- METER		AIR TEMP. °C		VIS. COD	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																		
			09	508	237					233	211	7	13										
MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME AND MALT-10 ³	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₂ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C						
		STD	0000	2227	3525	2435	0035823	0000	15284														
	003	OBS	0000	2227	35253	2435			15284														
	003	OBS	0009	2200	35248	2443			15279														
		STD	0010	2196	3525	2444	0035081	0035	15278														
		STD	0020	2152	3523	2454	0034090	0070	15268														
	003	OBS	0027	2124	35214	2461			15261														
		STD	0030	2116	3521	2463	0033307	0104	15260														
	003	OBS	0046	2054	35166	2476			15245														
		STD	0050	2019	3512	2482	0031540	0169	15236														
	003	OBS	0069	1900	34999	2504			15205														
		STD	0075	1890	3500	2507	0029301	0245	15203														
	003	OBS	0092	1866	35007	2513			15199														
		STD	0100	1861	3501	2515	0028616	0317	15199														
		STD	0125	1845	3501	2519	0028285	0388	15198														
	003	OBS	0140	1835	35016	2522			15198														
		STD	0150	1782	3492	2527	0027557	0458	15183														
		STD	0200	1532	3453	2556	0024945	0589	15111														
		STD	0250	1310	3426	2582	0022524	0708	15044														
	003	OBS	0279	1195	34156	2596			15008														
		STD	0300	1116	3413	2609	0019990	0814	14983														
	003	OBS	T0346	0965	34089	2632			14936														
		STD	0400	0870	3407	2646	0016553	0997	14909														
		STD	0500	0718	3403	2665	0014736	1153	14867														
	003	OBS	0548	0656	34011	2672			14850														
		STD	0600	0614	3406	2681	0013219	1293	14843														
		STD	0700	0541	3416	2698	0011645	1417	14831														
	003	OBS	0716		34174																		
		STD	0800	0478	3425	2713	0010292	1527	14823														
	003	OBS	0885	0432	34314	2723			14819														
		STD	0900	0425	3432	2724	0009222	1625	14818														
		STD	1000	0382	3439	2734	0008276	1712	14818														
		STD	1100	0349	3444	2741	0007596	1792	14821														
		STD	1200	0326	3449	2748	0007030	1865	14829														
	003	OBS	T1296	0314	34517	2751			14840														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLDUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311142	PW		2831 N	140070W		087	80	08	04	202	1967	N09	013	4718	14	08	1				7	6	0013
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB										
								08	S10	264		239	217	7	14								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C						
		STD	0000	2191	3526	2446	0034802	0000	15275														
202		OBS	0000	2191	35261	2446			15275														
202		OBS	0008	2187	35260	2447			15275														
		STD	0010	2183	3526	2448	0034620	0035	15275														
		STD	0020	2165	3527	2454	0034115	0069	15272														
202		OBS	0029	2150	35280	2459			15269														
		STD	0030	2149	3528	2459	0033652	0103	15269														
202		OBS	0047	2122	35259	2465			15265														
		STD	0050	2094	3523	2470	0032664	0169	15257														
202		OBS	0073	1936	35081	2501			15217														
		STD	0075	1930	3507	2502	0029771	0247	15215														
202		OBS	0092	1885	35026	2510			15205														
		STD	0100	1881	3503	2511	0028980	0321	15205														
		STD	0125	1855	3503	2517	0028445	0393	15202														
202		OBS	0139	1831	35025	2523			15197														
		STD	0150	1808	3497	2525	0027806	0463	15191														
202		OBS	T0185	1705	34791	2536			15165														
		STD	0200	1605	3466	2549	0025581	0596	15135														
		STD	0250	1320	3431	2584	0022353	0716	15048														
202		OBS	0280	1185	34170	2599			15005														
		STD	0300	1128	3415	2608	0020057	0822	14988														
202		OBS	T0373	0939	34091	2636			14931														
		STD	0400	0877	3408	2646	0016545	1005	14912														
		STD	0500	0686	3406	2672	0014087	1158	14855														
202		OBS	0558	0604	34041	2681			14831														
		STD	0600	0572	3409	2689	0012445	1291	14826														
		STD	0700	0504	3420	2706	0010881	1408	14816														
202		OBS	T0740	0481	34235	2711			14814														
		STD	0800	0454	3429	2719	0009701	1511	14813														
		STD	0900	0413	3436	2729	0008782	1603	14814														
202		OBS	0926	0403	34378	2731			14814														
		STD	1000	0377	3442	2737	0007995	1687	14816														
		STD	1100	0347	3447	2744	0007351	1764	14821														
		STD	1200	0321	3451	2750	0006824	1834	14827														
		STD	1300	0302	3453	2753	0006521	1901	14836														
		STD	1400	0287	3454	2755	0006334	1965	14847														
202		OBS	T1426	0284	34542	2756			14850														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311	142	PW	2831 N	14003 W		087	80	08	05	197	1967	N09	014	4663	14	09	2			6	7	0014
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								06	S10		264	239					206	7	14			
MESSENGER TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³		Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C				
		STD	0000	2179	3526	2449	0034483		0000	15272												
197		OBS	0000	2179	35261	2449				15272												
197		OBS	0008	2172	35259	2451				15271												
		STD	0010	2169	3526	2452	0034285		0034	15271												
		STD	0020	2154	3525	2455	0034012		0069	15269												
		STD	0030	2134	3523	2460	0033611		0102	15265												
197		OBS	0030	2134	35233	2460				15265												
197		OBS	0045	2095	35235	2471				15257												
		STD	0050	2053	3517	2477	0032043		0168	15246												
197		OBS	0070	1930	35018	2498				15214												
		STD	0075	1918	3502	2501	0029868		0245	15211												
197		OBS	0092	1880	35007	2510				15203												
		STD	0100	1870	3500	2512	0028895		0319	15201												
		STD	0125	1832	3498	2520	0028221		0390	15194												
197		OBS	0136	1811	34971	2524				15190												
		STD	0150	1789	3493	2526	0027648		0460	15185												
197		OBS	T0183	1699	34782	2537				15162												
		STD	0200	1582	3462	2552	0025369		0593	15128												
		STD	0250	1298	3427	2585	0022218		0712	15040												
197		OBS	0268	1217	34190	2595				15014												
		STD	0300	1131	3416	2609	0020037		0817	14989												
197		OBS	T0361	0979	34104	2631				14944												
		STD	0400	0879	3409	2646	0016554		1000	14913												
		STD	0500	0675	3404	2672	0014038		1153	14850												
197		OBS	0533	0625	34028	2677				14835												
		STD	0600	0572	3409	2689	0012445		1286	14826												
		STD	0700	0507	3419	2705	0010992		1403	14817												
197		OBS	0710	0501	34197	2706				14817												
		STD	0800	0463	3428	2717	0009885		1507	14817												
197		OBS	T0899	0425	34357	2727				14819												
		STD	0900	0425	3436	2727	0008926		1601	14819												
		STD	1000	0390	3442	2736	0008150		1687	14822												
		STD	1100	0359	3447	2743	0007492		1765	14826												
		STD	1200	0332	3451	2749	0006953		1837	14832												
		STD	1300	0309	3453	2752	0006603		1905	14839												
197		OBS	T1396	0290	34536	2755				14847												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	ORBIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	1142	PW	3012 N	14008 W		123	00	08	06	191	1967	N09	015	4755	16	09	2			8	3	0015
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB										
								06	510	240	239	217	7	14								
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ²	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P µg - dl/l	TOTAL-P µg - dl/l	ND ₂ -N µg - dl/l	ND ₃ -N µg - dl/l	SD ₄ -S µg - dl/l	pH	C					
		STD	0000	2194	3481	2411	0038171	0000	15271													
	191	OBS	0000	2194	34806	2411			15271													
		STD	0010	2190	3480	2412	0038116	0038	15271													
191		OBS	0010	2190	34804	2412			15271													
		STD	0020	2154	3480	2422	0037201	0076	15263													
		STD	0030	2089	3480	2439	0035544	0112	15248													
191		OBS	0034	2054	34804	2449			15239													
		STD	0050	1850	3465	2490	0030794	0179	15183													
191		OBS	0054	1823	34629	2495			15176													
		STD	0075	1756	3468	2515	0028450	0253	15160													
191		OBS	0081	1740	34682	2519			15157													
		STD	0100	1700	3466	2527	0027394	0322	15148													
191		OBS	0105	1684	34646	2530			15144													
		STD	0125	1557	3442	2542	0026062	0389	15105													
		STD	0150	1412	3421	2557	0024646	0453	15060													
191		OBS	0157	1374	34168	2562			15049													
		STD	0200	1167	3403	2592	0021407	0568	14984													
191		OBS	T0209	1132	34009	2597			14973													
		STD	0250	1047	3404	2614	0019344	0670	14949													
		STD	0300	0948	3406	2633	0017660	0762	14922													
191		OBS	0313	0923	34061	2637			14915													
		STD	0400	0765	3400	2656	0015478	0928	14868													
191		OBS	T0422	0729	33993	2661			14858													
		STD	0500	0640	3400	2673	0013880	1075	14836													
		STD	0600	0542	3404	2689	0012432	1206	14813													
191		OBS	0625		34059																	
		STD	0700	0465	3415	2706	0010774	1322	14800													
		STD	0800	0407	3425	2720	0009438	1423	14793													
191		OBS	T0833	0392	34285	2725			14793													
		STD	0900	0377	3434	2731	0008507	1513	14799													
		STD	1000	0356	3442	2739	0007750	1594	14807													
191		OBS	T1042	0348	34442	2742			14811													
		STD	1100	0337	3446	2744	0007338	1670	14817													
		STD	1200	0318	3448	2748	0007010	1741	14825													
		STD	1300	0300	3450	2751	0006689	1810	14835													
		STD	1400	0283	3453	2755	0006376	1875	14845													
		STD	1500	0267	3455	2758	0006069	1937	14855													
191		OBS	T1582	0255	34572	2761			14864													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10*	1*	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1142	PW	3002 N	14006 W		123	00	08	07	188	1967	N09 016	4572	15	08	1					6	2	0016
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
								05 S08		281	256	239	7	14									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH					
		STD	0000	2230	3509	2422	0037082		0000	15283													
188		OBS	0000	2230	35090	2422				15283													
		STD	0010	2224	3512	2426	0036777		0037	15283													
188		OBS	0010	2224	35115	2426				15283													
		STD	0020	2216	3501	2420	0037358		0074	15282													
		STD	0030	2208	3492	2415	0037831		0112	15280													
188		OBS	0030	2208																			
188		OBS	0049	1834	34780	2504				15180													
		STD	0050	1832	3477	2504	0029495		0179	15180													
188		OBS	0074	1771	34661	2510				15165													
		STD	0075	1767	3467	2512	0028778		0452	15164													
188		OBS	0098		34691																		
		STD	0100	1675	3467	2534	0026757		0321	15140													
		STD	0125	1573	3444	2540	0026261		0387	15110													
		STD	0150	1461	3426	2550	0025310		0452	15077													
188		OBS	0150	1461	34256	2550				15077													
		STD	0200	1206	3402	2584	0022191		0571	14997													
188		OBS	T0202	1198	34012	2585				14995													
		STD	0250	1066	3404	2611	0019676		0675	14956													
		STD	0300	0950	3407	2633	0017641		0769	14923													
188		OBS	0302	0946	34068	2633				14922													
		STD	0400	0784	3401	2654	0015681		0935	14876													
188		OBS	T0405	0776	34005	2655				14873													
		STD	0500	0613	3402	2678	0013373		1081	14825													
		STD	0600	0490	3404	2694	0011820		1206	14792													
188		OBS	0605	0485	34037	2695				14791													
		STD	0700	0436	3414	2709	0010504		1318	14787													
		STD	0800	0395	3425	2722	0009299		1417	14788													
188		OBS	T0804	0394	34251	2722				14789													
		STD	0900	0373	3434	2731	0008461		1506	14797													
		STD	1000	0352	3442	2740	0007704		1587	14806													
188		OBS	T1011	0350	34424	2740				14807													
		STD	1100	0332	3445	2744	0007339		1662	14814													
		STD	1200	0314	3448	2748	0007001		1734	14824													
		STD	1300	0296	3450	2751	0006650		1802	14833													
		STD	1400	0279	3453	2755	0006314		1867	14843													
		STD	1500	0263	3456	2759	0005986		1928	14853													
188		OBS	T1507	0262	34559	2759				14854													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUSEN INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311	142	PW	3021 N	140105W		123	00	08	08	183	1967	N09	017	4352	15	05	1				8	2	0017			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								04	506		274	250					217	7	14							
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C									
		STD	0000	2223	3487	2407	0038512	0000	15279																	
183		OBS	0000	2223	34866	2407			15279																	
		STD	0010	2215	3487	2409	0038327	0038	15278																	
183		OBS	0010	2215	34867	2409			15278																	
		STD	0020	2077	3498	2456	0033925	0075	15245																	
183		OBS	0029		34981																					
		STD	0030	1961	3496	2485	0031177	0107	15215																	
183		OBS	0049	1806	34641	2500			15170																	
		STD	0050	1803	3464	2501	0029754	0168	15170																	
183		OBS	0073	1729	34622	2517			15151																	
		STD	0075	1722	3465	2521	0027888	0240	15150																	
183		OBS	0098	1741Q	34792	2528Q																				
		STD	0100	1633	3476	2551	0025166	0306	15129																	
		STD	0125	1535	3446	2550	0025301	0369	15099																	
183		OBS	0149	1432	34241	2555			15067																	
		STD	0150	1426	3423	2556	0024783	0432	15065																	
		STD	0200	1183	3400	2586	0021917	0549	14989																	
183		OBS	T0201	1179	33999	2587			14988																	
		STD	0250	1095	3409	2610	0019803	0653	14967																	
183		OBS	0297	1006	34120	2628			14943																	
		STD	0300	0999	3412	2629	0018054	0748	14941																	
183		OBS	T0394	0799	34011	2652			14881																	
		STD	0400	0787	3401	2654	0015718	0917	14877																	
		STD	0500	0617	3402	2678	0013448	1062	14827																	
183		OBS	0590	0507	34023	2692			14797																	
		STD	0600	0500	3404	2694	0011912	1189	14796																	
		STD	0700	0440	3416	2710	0010402	1301	14789																	
183		OBS	T0781	0406	34248	2720			14790																	
		STD	0800	0403	3427	2722	0009244	1399	14792																	
		STD	0900	0388	3437	2732	0008413	1487	14804																	
183		OBS	T0979	0375	34430	2738			14812																	
		STD	1000	0371	3444	2739	0007814	1568	14814																	
		STD	1100	0353	3446	2743	0007488	1645	14823																	
		STD	1200	0333	3449	2747	0007134	1718	14832																	
		STD	1300	0311	3451	2751	0006752	1788	14840																	
		STD	1400	0287	3454	2755	0006349	1853	14847																	
183		OBS	T1468	0270	34556	2758			14851																	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIFF INCR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MD	DAY		HR.1/10	CRUISE NO.		STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT	
311	142	PW	3003 N	14004 W		123	00	08	09	184	1967	N09	018	4755	15	03	1			8	2		0018
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									05	508	247	250	228	7	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	Σ C					
		STD	0000	2284	3540	2430	0036330		0000	15300													
184		OBS	0000	2284	35397	2430				15300													
		STD	0010	2274	3539	2433	0036124		0036	15299													
184		OBS	0010	2274	35393	2433				15299													
		STD	0020	2140	3527	2461	0033464		0071	15265													
		STD	0030	2023	3511	2480	0031635		0104	15234													
184		OBS	0030		35111																		
		STD	0050	1839	3470	2497	0030147		0165	15181													
184		OBS	0050	1839	34703	2497				15181													
		STD	0075	1705	3454	2517	0028316		0238	15144													
184		OBS	0075	1705	34538	2517				15144													
		STD	0100	1688	3463	2528	0027333		0308	15144													
184		OBS	0100	1688	34631	2528				15144													
		STD	0125	1656	3457	2531	0027137		0376	15137													
		STD	0150	1574	3446	2541	0026211		0443	15115													
184		OBS	0152	1565	34448	2542				15112													
		STD	0200	1244	3407	2580	0022529		0565	15011													
184		OBS	T0205	1217	34040	2583				15002													
		STD	0250	1093	3406	2608	0019989		0671	14966													
		STD	0300	0970	3408	2631	0017848		0766	14930													
184		OBS	0305	0959	34085	2633				14927													
		STD	0400	0778	3401	2655	0015593		0933	14873													
184		OBS	T0409	0762	34003	2657				14869													
		STD	0500	0615	3402	2678	0013407		1078	14826													
		STD	0600	0496	3404	2694	0011893		1204	14794													
184		OBS	0610	0487	34038	2695				14792													
		STD	0700	0438	3415	2709	0010453		1316	14788													
		STD	0800	0397	3425	2722	0009322		1415	14789													
184		OBS	T0805	0395	34256	2722				14789													
		STD	0900	0377	3434	2731	0008507		1504	14799													
		STD	1000	0358	3441	2738	0007847		1586	14808													
184		OBS	1015	0355	34417	2739				14809													
		STD	1100	0339	3444	2743	0007465		1662	14817													
		STD	1200	0320	3447	2747	0007092		1735	14826													
		STD	1300	0301	3450	2751	0006723		1804	14835													
		STD	1400	0282	3453	2755	0006342		1869	14844													
		STD	1500	0262	3456	2759	0005945		1931	14853													
184		OBS	T1518	0259	34566	2760				14855													

TABLE IV.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
						WATER		WIND		BARO- METER			AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mbs)	DRY BULB	WET BULB																		
311142		PW	3005 N	13959 W		122	09	08	10	195	1967	N09	019	4480	15	06	2				7	2	0019	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	SPECIAL OBSERVATIONS				TYPE	AMT		
																WATER COLOR CODE	WIND DIR.	WIND SPEED OR FORCE					BARO- METER (mb)
31	1142	PW	30155N	140055W	123	00	08	11	187	1967	N09	020	4663	44	08	2				7	3		0020

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311	142	PW	3006 N	13958 W	122	09	08	12	188	1967	N09	021	4755	15	08	1		7	7	0021	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
								02	S09	254	222	211	7	14							
MESSNGR TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si D ₄ -Si μg - at/l	pH	CTD NO.				
		STD	0000	2229	3495	2412	0038059	0000	15281												
188		OBS	0000	2229	34951	2412			15281												
		STD	0010	2219	3495	2415	0037806	0038	15280												
188		OBS	0010	2219	34954	2415			15280												
		STD	0020	2217	3515	2430	0036385	0075	15284												
188		OBS	0029	2216	35167	2432			15285												
		STD	0030	2189	3513	2437	0035807	0111	15278												
188		OBS	0049	1826	34691	2499			15177												
		STD	0050	1822	3469	2500	0029839	0177	15176												
188		OBS	0074	1756	34649	2513			15160												
		STD	0075	1756	3465	2513	0028659	0250	15160												
188		OBS	0098	1745	34747	2523			15162												
		STD	0100	1740	3475	2525	0027653	0320	15161												
		STD	0125	1657	3479	2547	0025566	0387	15140												
		STD	0150	1546	3483	2576	0022934	0447	15111												
188		OBS	0150	1546	34827	2576			15111												
		STD	0200	1231	3404	2580	0022506	0561	15006												
188		OBS	T0202	1221	34020	2581			15003												
		STD	0250	1079	3405	2609	0019849	0667	14961												
		STD	0300	0950	3407	2633	0017589	0761	14923												
188		OBS	0302	0945	34075	2634			14921												
		STD	0400	0745	3400	2659	0015183	0924	14861												
188		OBS	0401	0743	34000	2659			14860												
		STD	0500	0592	3401	2680	0013174	1066	14817												
		STD	0600	0482	3405	2696	0011620	1190	14789												
188		OBS	0606	0477	34053	2697			14788												
		STD	0700	0433	3416	2711	0010320	1300	14786												
		STD	0800	0396	3425	2722	0009311	1398	14789												
188		OBS	T0809	0393	34263	2723			14789												
		STD	0900	0375	3435	2732	0008410	1487	14798												
		STD	1000	0355	3442	2739	0007738	1567	14807												
188		OBS	T1009	0353	34429	2740			14808												
		STD	1100	0335	3445	2744	0007330	1643	14816												
		STD	1200	0317	3448	2748	0006984	1714	14825												
		STD	1300	0298	3451	2752	0006629	1782	14834												
		STD	1400	0280	3454	2756	0006274	1847	14844												
		STD	1500	0263	3457	2759	0005927	1908	14853												
188		OBS	T1512	0261	34568	2760			14855												

TABLE V. Observed and interpolated oceanographic data for stations taken by USCGC PONT-CHARTRAIN at Ocean Station NOVEMBER, 3-24 September 1967, prepared from NODC Listing No. 31-1163 PW.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER		DIR.		HGT	PER		SEA		TYPE	AMT					
31	1163	PW	3008 N	139575W	122	09	09	03	190	1967	N09	001	4486	15	00	0	3		01	6	5		0001							
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB																	
						05	505	173	250	239	8	14																		
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	$\Sigma \Delta \sigma$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S CODE													
		STD	0000	2363	3508	2383	0040824	0000	15316																					
190		OBS	0000	2363	35077	2383			15316																					
		STD	0010	2358	3511	2387	0040507	0041	15317																					
190		OBS	0010	2358	35107	2387			15317																					
		STD	0020	2349	3520	2396	0039623	0081	15317																					
		STD	0030	2340	3521	2400	0039339	0120	15317																					
190		OBS	0030	2340	35210	2400			15317																					
		STD	0050	2023	3495	2468	0032894	0192	15235																					
190		OBS	0050	2023	34947	2468			15235																					
190		OBS	0074	1844	34838	2506			15188																					
		STD	0075	1839	3483	2506	0029309	0270	15186																					
190		OBS	0099	1728	34698	2523			15156																					
		STD	0100	1723	3469	2524	0027699	0341	15155																					
		STD	0125	1607	3450	2537	0026563	0409	15122																					
		STD	0150	1486	3433	2551	0025289	0474	15086																					
190		OBS	0151	1481	34323	2551			15084																					
		STD	0200	1225	3404	2582	0022395	0593	15004																					
190		OBS	T0203	1212	34030	2583			15000																					
		STD	0250	1082	3405	2609	0019879	0699	14962																					
		STD	0300	0962	3407	2631	0017821	0793	14927																					
190		OBS	0303	0955	34070	2632			14925																					
		STD	0400	0774	3401	2656	0015535	0960	14872																					
190		OBS	0402	0771	34006	2656			14871																					
		STD	0500	0611	3402	2679	0013347	1104	14824																					
		STD	0600	0494	3406	2696	0011691	1230	14794																					
190		OBS	0605	0489	34063	2697			14793																					
		STD	0700	0441	3416	2710	0010414	1340	14790																					
		STD	0800	0401	3425	2721	0009369	1439	14791																					
190		OBS	T0810	0398	34259	2722			14791																					
		STD	0900	0376	3434	2731	0008495	1528	14798																					
		STD	1000	0353	3442	2739	0007715	1609	14806																					
190		OBS	T1004	0352	34421	2740			14806																					
		STD	1100	0331	3448	2746	0007091	1683	14814																					
		STD	1200	0311	3453	2752	0006560	1752	14823																					
		STD	1300	0292	3456	2756	0006184	1815	14832																					
		STD	1400	0275	3457	2759	0005973	1876	14842																					
		STD	1500	0259	3457	2760	0005843	1935	14852																					
190		OBS	T1509	0258	34570	2760			14853																					

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDECT	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT				
311	163	PW	30085N	13955 W		122	09	09	04	197	1967	N09	002	4572	15	34	0	4		01	6	3	0002			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
								00	500		169	250														
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SIO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER									
		STD	0000	2362	3500	2377	0041381	0000	15315																	
197		OBS	0000	2362	34996	2377			15315																	
		STD	0010	2356	3500	2379	0041201	0041	15315																	
197		OBS	0010	2356	35003	2379			15315																	
		STD	0020	2267	3509	2412	0038159	0081	15296																	
		STD	0030	2179	3510	2437	0035787	0118	15275																	
197		OBS	0030		35096																					
		STD	0050	2006	3491	2469	0032769	0186	15230																	
197		OBS	0050	2006	34905	2469			15230																	
		STD	0075	1795	3467	2505	0029460	0264	15172																	
197		OBS	0075	1795	34666	2505			15172																	
		STD	0100	1741	3467	2518	0028243	0336	15160																	
197		OBS	0100		34672																					
		STD	0125	1663	3458	2530	0027220	0406	15140																	
		STD	0150	1559	3445	2544	0025960	0472	15110																	
197		OBS	0152	1550	34437	2545			15108																	
		STD	0200	1269	3409	2577	0022854	0594	15020																	
197		OBS	T0205	1245	34061	2579			15012																	
		STD	0250	1107	3407	2606	0020175	0702	14971																	
		STD	0300	0975	3408	2629	0017989	0797	14932																	
197		OBS	0305	0963	34076	2631			14928																	
		STD	0400	0782	3401	2654	0015652	0965	14875																	
197		OBS	T0402	0778	34008	2655			14874																	
		STD	0500	0611	3402	2679	0013347	1110	14824																	
		STD	0600	0491	3406	2696	0011654	1235	14793																	
197		OBS	0607	0484	34068	2698			14791																	
		STD	0700	0440	3417	2711	0010328	1345	14789																	
		STD	0800	0401	3427	2723	0009220	1443	14791																	
197		OBS	0804	0400	34274	2723			14791																	
		STD	0900	0377	3435	2731	0008433	1531	14799																	
		STD	1000	0354	3441	2739	0007801	1613	14806																	
197		OBS	T1006	0353	34418	2739			14807																	
		STD	1100	0333	3445	2744	0007358	1688	14815																	
		STD	1200	0313	3448	2748	0006974	1760	14823																	
		STD	1300	0295	3451	2752	0006609	1828	14833																	
		STD	1400	0277	3454	2756	0006239	1892	14842																	
		STD	1500	0262	3457	2760	0005893	1953	14853																	
197		OBS	T1504	0261	34569	2760			14853																	

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	TIME 1/10	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		MOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311163	PW	3007 N	13958 W	122	09	04	05	194	1967	N09	003		4755	15	00	0	3		01	6	2		0003		
					WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
							00 <td>500</td> <td>193</td> <td>267</td> <td>250</td> <td>8</td> <td>14</td> <th colspan="10"></th>	500	193	267	250	8	14												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	W C								
		STD	0000	2424	3501	2359	0043063	0000	15330																
194		OBS	0000	2424	35005	2359			15330																
		STD	0010	2359	3499	2377	0041407	0042	15316																
194		OBS	0010	2359	34986	2377			15316																
		STD	0020	2311	3501	2393	0039927	0083	15306																
		STD	0030	2230	3504	2418	0037577	0122	15287																
194		OBS	0030	2230	35037	2418			15287																
		STD	0050	1972	3490	2477	0031991	0191	15221																
194		OBS	0050	1972	34895	2477			15221																
		STD	0075	1815	3482	2511	0028827	0267	15179																
194		OBS	0075	1815	34818	2511			15179																
		STD	0100	1716	3465	2523	0027801	0338	15152																
194		OBS	0100		34654																				
		STD	0125	1607	3449	2536	0026636	0406	15122																
		STD	0150	1489	3433	2550	0025351	0471	15087																
194		OBS	0152	1479	34317	2551			15084																
		STD	0200	1217	3404	2583	0022247	0590	15001																
194		OBS	T0206	1190	34022	2587			14993																
		STD	0250	1076	3406	2611	0019694	0695	14960																
		STD	0300	0961	3407	2631	0017797	0789	14927																
194		OBS	0307	0946	34071	2634			14922																
		STD	0400	0777	3401	2655	0015579	0956	14873																
194		OBS	T0407	0765	34009	2657			14870																
		STD	0500	0618	3401	2677	0013513	1101	14827																
		STD	0600	0502	3405	2694	0011862	1228	14797																
194		OBS	0613	0490	34061	2696			14794																
		STD	0700	0444	3415	2709	0010524	1340	14791																
		STD	0800	0402	3424	2720	0009454	1440	14791																
194		OBS	0814	0397	34254	2722			14791																
		STD	0900	0377	3433	2730	0008581	1530	14798																
		STD	1000	0355	3441	2738	0007812	1612	14807																
194		OBS	1020	0351	34420	2740			14809																
		STD	1100	0335	3444	2743	0007411	1688	14815																
		STD	1200	0316	3447	2747	0007053	1760	14824																
		STD	1300	0299	3450	2751	0006714	1829	14834																
		STD	1400	0283	3453	2755	0006376	1895	14845																
		STD	1500	0269	3456	2758	0006064	1957	14856																
194		OBS	T1528	0265	34564	2759			14859																

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT				
31	1163	PW	3002 N	14003 W		123	00	09	06	194	1967	N09	004		4572	15	32	0	4		01	8	6	0004		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								00	S00	220	266	244	8	13												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C									
		STD	0000	2416	3502	2363	0042699	0000	15328																	
194		OBS	0000	2416	35024	2363			15328																	
		STD	0010	2378	3507	2378	0041370	0042	15321																	
194		OBS	0010	2378	35065	2378			15321																	
		STD	0020	2259	3503	2409	0038374	0082	15293																	
		STD	0030	2132	3495	2439	0035590	0119	15261																	
194		OBS	0030	2132	34952	2439			15261																	
		STD	0050	1852	3467	2491	0030697	0185	15184																	
194		OBS	0051	1842	34658	2493			15181																	
		STD	0075	1746	3465	2515	0028438	0259	15157																	
194		OBS	0076	1742	34650	2516			15156																	
		STD	0100	1647	3464	2538	0026352	0329	15146																	
194		OBS	0103		34642																					
		STD	0125	1545	3447	2548	0025442	0395	15114																	
		STD	0150	1441	3428	2556	0024725	0459	15081																	
194		OBS	0154	1424	34251	2558			15065																	
		STD	0200	1219	3404	2583	0022284	0576	15002																	
194		OBS	T0207	1192	34020	2586			14993																	
		STD	0250	1071	3404	2610	0019747	0682	14958																	
		STD	0300	0952	3407	2632	0017681	0775	14923																	
194		OBS	0308	0935	34070	2635			14918																	
		STD	0400	0788	3401	2654	0015740	0942	14877																	
194		OBS	T0411	0771	34006	2656			14872																	
		STD	0500	0624	3402	2677	0013496	1088	14830																	
		STD	0600	0503	3404	2693	0011941	1216	14797																	
194		OBS	0614	0490	34044	2695			14793																	
		STD	0700	0450	3414	2707	0010669	1329	14793																	
		STD	0800	0411	3425	2720	0009485	1429	14795																	
194		OBS	0814	0406	34260	2721			14795																	
		STD	0900	0381	3433	2729	0008627	1520	14800																	
		STD	1000	0355	3441	2738	0007812	1602	14807																	
194		OBS	1017	0351	34419	2740			14808																	
		STD	1100	0332	3447	2745	0007177	1677	14815																	
		STD	1200	0311	3451	2751	0006708	1747	14823																	
		STD	1300	0293	3454	2755	0006343	1812	14832																	
		STD	1400	0278	3456	2758	0006082	1874	14843																	
		STD	1500	0265	3456	2759	0005987	1934	14854																	
194		OBS	T1519	0263	34564	2759			14857																	

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1'	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE		AMT
311163	PW		2957 N	140005W	087 90	09	07	190	1967		N09 005		4050	15	35	0	4		01	8	2	0005
		WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						00	500	217		278	256	8	14									
MESSNGR TIME HR 1/10	CST OF NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	2419	3514	2371	0041926		0000	15331												
190		OBS	0000	2419	35143	2371				15331												
		STD	0010	2440	3519	2369	0042224		0042	15338												
190		OBS	0010	2440																		
		STD	0020	2430	3524	2375	0041640		0084	15338												
		STD	0030	2420	3528	2382	0041055		0125	15337												
190		OBS	0030	2420	35284	2382				15337												
		STD	0050	1958	3492	2483	0031440		0198	15217												
190		OBS	0050	1958	34923	2483				15217												
		STD	0075	1775	3469	2511	0028847		0273	15166												
190		OBS	0075	1775	34686	2511				15166												
		STD	0100	1712	3466	2525	0027637		0344	15151												
190		OBS	0100	1712	34664	2525				15151												
		STD	0125	1648	3460	2535	0026740		0412	15135												
		STD	0150	1552	3448	2548	0025591		0477	15108												
190		OBS	0151	1547	34471	2548				15107												
		STD	0200	1252	3407	2579	0022679		0598	15013												
190		OBS	0204	1232	34049	2581				15007												
		STD	0250	1098	3406	2607	0020061		0705	14968												
		STD	0300	0972	3408	2630	0017932		0800	14931												
190		OBS	0303	0965	34077	2631				14929												
		STD	0400	0779	3401	2655	0015586		0967	14874												
190		OBS	0403	0774	34011	2656				14872												
		STD	0500	0612	3403	2679	0013286		1112	14825												
		STD	0600	0493	3407	2697	0011604		1236	14794												
190		OBS	0608	0486	34077	2698				14792												
		STD	0700	0444	3417	2710	0010375		1346	14791												
		STD	0800	0406	3427	2722	0009278		1444	14793												
190		OBS	0808	0403	34274	2723				14793												
		STD	0900	0379	3434	2730	0008530		1533	14799												
		STD	1000	0355	3441	2738	0007812		1615	14807												
190		OBS	1012	0352	34418	2739				14808												
		STD	1100	0333	3444	2743	0007380		1691	14815												
		STD	1200	0313	3447	2748	0006996		1763	14823												
		STD	1300	0294	3450	2752	0006627		1831	14832												
		STD	1400	0278	3453	2755	0006280		1896	14843												
		STD	1500	0265	3456	2759	0005972		1957	14854												
190		OBS	1520	0262	34568	2760				14856												

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1163	PW	30075N	14001 W	123 00	09 08	191	1967	N09 006	4663	15	35	0	3			01	6	2	0006	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
		34	507	213	267	228	8	13													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH					
		STD	0000	2445	3492	2347	0044288	0000	15334												
191		OBS	0000	2445	34918	2347			15334												
		STD	0010	2390	3498	2368	0042291	0043	15323												
191		OBS	0010	2390	34984	2368			15323												
		STD	0020	2244	3499	2411	0038249	0084	15289												
		STD	0030	2106	3500	2449	0034587	0120	15255												
191		OBS	0030	2106	34997	2449			15255												
		STD	0050	1857	3468	2490	0030765	0185	15186												
191		OBS	0050	1857	34677	2490			15186												
		STD	0075	1770	3467	2511	0028833	0260	15165												
191		OBS	0075	1770	34672	2511			15165												
		STD	0100	1707	3466	2526	0027545	0330	15150												
191		OBS	0100	1707	34661	2526			15150												
		STD	0125	1613	3456	2540	0026258	0398	15124												
		STD	0150	1502	3443	2555	0024894	0461	15092												
191		OBS	0152	1492	34413	2556			15089												
		STD	0200	1223	3404	2582	0022358	0580	15003												
191		OBS	T0202	1214	34027	2583			15000												
		STD	0250	1084	3406	2609	0019832	0685	14963												
		STD	0300	0964	3407	2631	0017846	0779	14928												
191		OBS	0306	0951	34073	2633			14924												
		STD	0400	0774	3401	2656	0015535	0946	14872												
191		OBS	T0406	0764	34008	2657			14869												
		STD	0500	0621	3401	2677	0013553	1092	14828												
		STD	0600	0501	3404	2694	0011924	1219	14796												
191		OBS	0608	0493	34047	2695			14795												
		STD	0700	0460	3413	2706	0010833	1333	14797												
		STD	0800	0424	3423	2717	0009795	1436	14800												
		STD	0900	0388	3432	2728	0008763	1529	14803												
		STD	1000	0352	3442	2739	0007723	1611	14806												
191		OBS	T1001	0352	34419	2739			14806												
		STD	1100	0327	3445	2744	0007282	1686	14812												
		STD	1200	0305	3448	2749	0006875	1757	14820												
		STD	1300	0288	3451	2752	0006528	1824	14830												
		STD	1400	0274	3454	2756	0006212	1888	14841												
		STD	1500	0265	3457	2759	0005943	1948	14854												
191		OBS	T1501	0265	34566	2759			14854												

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1163	PW	3006 N	14000 W	123	00	09	09	201	1967	N09	007	4380	14	02	3	3		01	8	4	0007	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB														
				05	512	220		250	233	8	14												
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -S $\mu\text{g} \cdot \text{at/l}$	pH	S ODC						
		STD	0000	2459	3515	2360	0043032	0000	15340														
	201	OBS	0000	2459	35148	2360			15340														
		STD	0010	2409	3526	2383	0040838	0042	15331														
	201	OBS	0010	2409	35260	2383			15331														
		STD	0020	2265	3520	2421	0037310	0081	15297														
	201	OBS	0029	2157	35135	2446			15270														
		STD	0030	2149	3513	2448	0034749	0117	15268														
	201	OBS	0048	1993	34962	2477			15227														
		STD	0050	1968	3493	2481	0031638	0183	15220														
	201	OBS	0072	1769	34682	2512			15164														
		STD	0075	1765	3468	2513	0028644	0259	15163														
	201	OBS	0096	1719	34683	2524			15153														
		STD	0100	1702	3465	2526	0027512	0329	15148														
		STD	0125	1592	3447	2538	0026454	0396	15117														
	201	OBS	0145	1494	34333	2549			15087														
		STD	0150	1461	3429	2553	0025062	0461	15077														
	201	OBS	0197	1201	34034	2586			14995														
		STD	0200	1193	3404	2588	0021806	0578	14993														
		STD	0250	1063	3407	2614	0019397	0681	14956														
	201	OBS	0295	0965	34082	2631			14928														
		STD	0300	0957	3408	2633	0017658	0774	14925														
	201	OBS	0397	0804	34019	2652			14883														
		STD	0400	0798	3402	2653	0015821	0941	14881														
		STD	0500	0629	3402	2676	0013585	1088	14832														
	201	OBS	0597	0512	34020	2691			14800														
		STD	0600	0510	3402	2691	0012160	1217	14800														
		STD	0700	0458	3413	2706	0010838	1332	14796														
	201	OBS	0792	0418	34228	2718			14796														
		STD	0800	0415	3424	2719	0009606	1434	14797														
		STD	0900	0383	3433	2729	0008650	1525	14801														
	201	OBS	0988	0358	34396	2737			14806														
		STD	1000	0355	3440	2738	0007886	1608	14807														
		STD	1100	0330	3447	2746	0007154	1683	14814														
		STD	1200	0308	3451	2751	0006673	1752	14822														
		STD	1300	0290	3454	2755	0006308	1817	14831														
		STD	1400	0276	3456	2758	0006059	1879	14842														
	201	OBS	1448	0270	34562	2758			14848														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT IN/10	MARSEEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
31	1163	PW	3005 N	13959 W		122	09	09	10	197	1967	N09	008	4480	16	00	0	3		01	6	2	0008
							WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
									36	S10		237	261				239	8	14				
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-×10 ⁷	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
		STD	0000	2439	3514	2365	0042553	0000	15335														
197		OBS	0000	2439	35135	2365			15335														
		STD	0010	2422	3513	2370	0042115	0042	15333														
197		OBS	0010	2422	35134	2370			15333														
		STD	0020	2355	3518	2393	0039971	0083	15319														
		STD	0030	2282	3522	2417	0037696	0122	15303														
197		OBS	0034	2251	35232	2427			15296														
		STD	0050	2115	3498	2446	0035017	0195	15260														
197		OBS	0054	2079	34941	2453			15251														
		STD	0075	1864	3489	2505	0029471	0276	15194														
197		OBS	0083	1792	34841	2519			15174														
		STD	0100	1699	3468	2529	0027226	0346	15148														
197		OBS	0109		34599																		
		STD	0125	1568	3446	2542	0026007	0413	15109														
		STD	0150	1442	3428	2556	0024745	0476	15071														
197		OBS	0162	1384	34208	2563			15053														
		STD	0200	1203	3406	2587	0021842	0593	14997														
197		OBS	T0216	1139	34014	2596			14976														
		STD	0250	1061	3404	2612	0019583	0696	14955														
		STD	0300	0955	3405	2631	0017847	0790	14924														
197		OBS	0324	0909	34052	2638			14911														
		STD	0400	0782	3401	2654	0015652	0957	14875														
197		OBS	T0433	0731	33998	2661			14860														
		STD	0500	0632	3402	2676	0013625	1104	14833														
		STD	0600	0515	3407	2694	0011873	1231	14803														
197		OBS	0649	0471	34098	2702			14793														
		STD	0700	0448	3415	2708	0010571	1344	14793														
		STD	0800	0409	3425	2720	0009462	1444	14794														
197		OBS	0866	0387	34312	2727			14797														
		STD	0900	0379	3434	2730	0008530	1534	14799														
		STD	1000	0356	3440	2738	0007898	1616	14807														
197		OBS	1082	0338	34451	2743			14814														
		STD	1100	0334	3446	2744	0007274	1692	14815														
		STD	1200	0314	3451	2750	0006742	1762	14824														
		STD	1300	0296	3454	2754	0006377	1827	14834														
		STD	1400	0279	3456	2757	0006093	1890	14843														
		STD	1500	0264	3458	2760	0005828	1949	14854														
197		OBS	T1630	0246	34580	2762			14868														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MO	DAY	HR	1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.									CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
31	1163	PW	3002 N	13959 W	122	09	09	11	186	1967	N09	009	4480	15	02	01	01	3	4	0009
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
				03	509		234	261				233	8	14						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C			
		STD	0000	2436	3515	2367	0042366	0000	15335											
186		OBS	0000	2436	35149	2367			15335											
186		OBS	0009	2424	35146	2370			15333											
		STD	0010	2410	3515	2374	0041695	0042	15330											
		STD	0020	2270	3513	2414	0037937	0082	15297											
186		OBS	0028	2157	35121	2445			15269											
		STD	0030	2121	3506	2450	0034522	0118	15259											
186		OBS	0047	1885	34699	2485			15193											
		STD	0050	1871	3469	2488	0031007	0184	15190											
186		OBS	0070	1779	34634	2506			15166											
		STD	0075	1759	3464	2511	0028832	0258	15161											
186		OBS	0094	17750	34647	25080														
		STD	0100	1653	3460	2534	0026774	0328	15133											
		STD	0125	1537	3440	2545	0025781	0394	15099											
186		OBS	0142	1452	34281	2554			15073											
		STD	0150	1400	3422	2560	0024331	0456	15057											
186		OBS	T0192	1175	34009	2589			14985											
		STD	0200	1156	3402	2593	0021283	0570	14980											
		STD	0250	1042	3407	2617	0019039	0671	14948											
186		OBS	0287	0962	34081	2632			14925											
		STD	0300	0934	3407	2636	0017362	0762	14917											
186		OBS	0383	0770	34008	2656			14868											
		STD	0400	0740	3401	2660	0015052	0924	14859											
		STD	0500	0592	3401	2680	0013159	1065	14817											
186		OBS	0579	0506	34015	2691			14795											
		STD	0600	0494	3404	2694	0011839	1190	14794											
		STD	0700	0443	3416	2710	0010438	1302	14791											
186		OBS	0774	0412	34238	2719			14791											
		STD	0800	0404	3426	2722	0009329	1400	14792											
		STD	0900	0376	3434	2731	0008495	1490	14798											
186		OBS	T0975	0357	34392	2737			14803											
		STD	1000	0351	3441	2739	0007766	1571	14805											
		STD	1100	0329	3446	2745	0007216	1646	14813											
		STD	1200	0310	3450	2750	0006770	1716	14822											
		STD	1300	0294	3453	2754	0006428	1782	14833											
		STD	1400	0281	3455	2757	0006190	1845	14844											
186		OBS	T1471	0273	34553	2757			14853											

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT	
311	163	PW	2825 N	14002 W		087	80	09	12	197	1967	N09	010	4663	14	00	0	2		01	6	2	0010	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								07	S15	179	256	228	8	14										
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-K10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SIO ₄ -Si µg - dl/l	pH	S C C							
		STD	0000	2426	3540	2389	0040244	0000	15335															
197		OBS	0000	2426	35404	2389			15335															
197		OBS	0008	2419	35402	2391			15335															
		STD	0010	2389	3538	2398	0039408	0040	15328															
		STD	0020	2254	3531	2432	0036217	0078	15295															
197		OBS	0029	2157	35269	2456			15271															
		STD	0030	2155	3527	2457	0033917	0113	15271															
197		OBS	0046	21510	35239	24560																		
		STD	0050	2096	3522	2469	0032788	0179	15258															
197		OBS	0071	2018	35136	2484			15239															
		STD	0075	1998	3513	2489	0031027	0259	15235															
197		OBS	0091	1927	35111	2506			15217															
		STD	0100	1912	3510	2509	0029198	0334	15214															
		STD	0125	1855	3505	2519	0028263	0406	15202															
197		OBS	0137	1820	35003	2524			15193															
		STD	0150	1773	3492	2530	0027346	0476	15181															
197		OBS	T0179	1659	34745	2543			15149															
		STD	0200	1539	3458	2558	0024731	0606	15114															
		STD	0250	1306	3427	2583	0022373	0724	15042															
197		OBS	0270	1234	34193	2592			15020															
		STD	0300	1178	3416	2600	0020887	0832	15006															
197		OBS	0358	1063	34106	2617			14974															
		STD	0400	0943	3409	2635	0017582	1024	14937															
		STD	0500	0717	3404	2666	0014670	1186	14867															
197		OBS	0538	0653	34019	2673			14847															
		STD	0600	0599	3409	2686	0012798	1323	14837															
		STD	0700	0525	3419	2703	0011219	1443	14825															
197		OBS	0718	0513	34206	2705			14823															
		STD	0800	0470	3428	2716	0009971	1549	14820															
197		OBS	0899	0425	34349	2726			14819															
		STD	0900	0425	3435	2727	0009000	1644	14819															
		STD	1000	0386	3441	2735	0008176	1730	14820															
		STD	1100	0353	3446	2743	0007495	1808	14823															
		STD	1200	0328	3450	2748	0006979	1880	14830															
		STD	1300	0309	3452	2752	0006677	1949	14839															
197		OBS	T1355	0302	34530	2753			14845															

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR. 1/10	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311163	PW		2958 N	13959 W	086	99	09	13	201	1967	NO9	011	4206	15	06	0	3		01	6	2	0011
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
				11		508	163	261	228	8												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{g}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{g}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{g}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{g}^{-1}$	Si O ₄ -Si $\mu\text{g} \cdot \text{g}^{-1}$	PH	SS CC					
		STD	0000	2439	3511	2363	0042747	0000	15335													
201		OBS	0000	2439	35108	2363			15335													
		STD	0010	2425	3512	2368	0042294	0043	15333													
201		OBS	0010	2425	35121	2368			15333													
		STD	0020	2262	3503	2409	0038456	0083	15294													
201		OBS	0029		34954																	
		STD	0030	2121	3494	2441	0035390	0120	15258													
201		OBS	0048	1926	34775	2480			15206													
		STD	0050	1912	3477	2483	0031419	0187	15202													
201		OBS	0072	1781	34724	2513			15168													
		STD	0075	1768	3471	2515	0028510	0262	15164													
201		OBS	0096	1674	34594	2528			15138													
		STD	0100	1656	3457	2531	0027059	0331	15133													
		STD	0125	1539	3440	2544	0025823	0397	15099													
201		OBS	0146	1438	34276	2557			15069													
		STD	0150	1415	3425	2560	0024414	0460	15062													
201		OBS	0197	1185	34012	2587			14989													
		STD	0200	1178	3402	2589	0021680	0575	14987													
		STD	0250	1070	3408	2613	0019443	0678	14958													
201		OBS	0294	0979	34095	2630			14933													
		STD	0300	0967	3409	2632	0017747	0771	14929													
201		OBS	0390	0795	34013	2653			14876													
		STD	0400	0776	3402	2656	0015527	0937	14873													
		STD	0500	0614	3404	2679	0013275	1081	14826													
201		OBS	0587	0512	34053	2693			14799													
		STD	0600	0504	3407	2696	0011738	1206	14796													
		STD	0700	0450	3417	2710	0010446	1317	14794													
201		OBS	0780	0415	34242	2719			14793													
		STD	0800	0409	3426	2721	0009387	1416	14794													
		STD	0900	0378	3435	2731	0008444	1506	14799													
201		OBS	0978	0357	34404	2738			14804													
		STD	1000	0351	3442	2740	0007692	1586	14805													
		STD	1100	0328	3448	2747	0007057	1660	14813													
		STD	1200	0308	3452	2752	0006599	1728	14822													
		STD	1300	0292	3455	2756	0006257	1793	14832													
		STD	1400	0279	3456	2757	0006093	1854	14843													
201		OBS	T1464	0273	34564	2758			14852													

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS INDIC	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
31	1163	PW	3005 N	13951 W		122	09	09	14	197	1967	N09	012	4480	15	10	2	3		01	2	4	0012
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									24	S05	159	267	228	8	14								
MESSENGER TIME OF HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH						
		STD	0000	2441	3509	2361	0042913		0000	15335													
197		OBS	0000	2441	35093	2361				15335													
		STD	0010	2420	3511	2368	0042267		0043	15332													
197		OBS	0010	2420	35105	2368				15332													
		STD	0020	2298	3509	2403	0039013		0083	15304													
197		OBS	0029	2194	35074	2431				15278													
		STD	0030	2183	3506	2433	0036154		0121	15276													
197		OBS	0048	1992	34874	2471				15225													
		STD	0050	1966	3485	2476	0032168		0189	15218													
197		OBS	0073	1751	34648	2514				15158													
		STD	0075	1745	3465	2515	0028444		0265	15157													
197		OBS	0097	1680	34624	2529				15141													
		STD	0100	1673	3462	2531	0027076		0334	15139													
		STD	0125	1595	3458	2545	0025718		0400	15119													
197		OBS	0148	1499	34481	2559				15091													
		STD	0150	1485	3446	2561	0024319		0463	15087													
197		OBS	T0199	1203	34038	2586				14996													
		STD	0200	1200	3404	2586	0021934		0578	14995													
		STD	0250	1083	3410	2613	0019521		0682	14963													
		STD	0300	0982	3411	2631	0017816		0775	14935													
197		OBS	0300	0982	34114	2631				14935													
197		OBS	0399	0834	34013	2647				14895													
		STD	0400	0832	3401	2647	0016376		0946	14894													
		STD	0500	0637	3404	2677	0013536		1096	14835													
		STD	0600	0500	3407	2696	0011704		1222	14796													
197		OBS	0604	0496	34069	2696				14795													
		STD	0700	0447	3417	2710	0010411		1333	14792													
		STD	0800	0405	3427	2722	0009267		1431	14793													
197		OBS	0804	0404	34274	2723				14793													
		STD	0900	0377	3435	2731	0008433		1520	14799													
		STD	1000	0351	3442	2740	0007692		1600	14805													
197		OBS	1009	0349	34422	2740				14806													
		STD	1100	0328	3447	2746	0007131		1674	14813													
		STD	1200	0308	3451	2751	0006673		1743	14822													
		STD	1300	0291	3454	2755	0006320		1808	14831													
		STD	1400	0276	3456	2758	0006059		1870	14842													
		STD	1500	0264	3456	2759	0005975		1930	14854													
197		OBS	T1521	0262	34564	2759				14857													

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	LIGHT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER
31	1163	PW	3004 N	14000 W		123	00	09	15	200	1967	N09	013	4572	15	31	012		01	02	0013
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPED. OR FORCE	DRY BULB		WET BULB													
				24	S07	159	261	228	8	14											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C				
		STD	0000	2454	3509	2357	0043313	0000	15338												
200		OBS	0000	2454	35089	2357			15338												
		STD	0010	2439	3509	2361	0042931	0043	15336												
200		OBS	0010	2439	35088	2361			15336												
		STD	0020	2416	3513	2372	0041991	0086	15333												
200		OBS	0029	2348	35173	2395			15318												
		STD	0030	2330	3515	2398	0039494	0126	15314												
200		OBS	0049	2038	34851	2457			15238												
		STD	0050	2024	3484	2460	0033694	0200	15234												
200		OBS	0073	1789	34628	2503			15169												
		STD	0075	1765	3464	2505	0029415	0278	15169												
200		OBS	0098	1726	34672	2522			15155												
		STD	0100	1718	3466	2523	0027803	0350	15153												
		STD	0125	1608	3449	2536	0026658	0418	15122												
200		OBS	0149	1493	34342	2550			15088												
		STD	0150	1487	3434	2551	0025266	0483	15086												
		STD	0200	1219	3404	2583	0022306	0602	15002												
200		OBS	0201	1215	34031	2583			15000												
		STD	0250	1077	3406	2610	0019711	0707	14960												
200		OBS	0299	0958	34071	2632			14925												
		STD	0300	0956	3407	2632	0017716	0800	14925												
		STD	0400	0769	3401	2656	0015492	0966	14870												
200		OBS	T0400	0769	34006	2656			14870												
		STD	0500	0609	3402	2679	0013313	1111	14824												
200		OBS	0597	0498	34036	2694			14795												
		STD	0600	0496	3404	2694	0011863	1236	14794												
		STD	0700	0446	3417	2710	0010399	1348	14792												
200		OBS	0792	0408	34264	2721			14793												
		STD	0800	0405	3427	2722	0009267	1446	14793												
		STD	0900	0375	3435	2732	0008410	1534	14798												
200		OBS	0993	0350	34408	2739			14804												
		STD	1000	0348	3441	2739	0007732	1615	14804												
		STD	1100	0325	3447	2746	0007096	1689	14812												
		STD	1200	0305	3451	2751	0006639	1758	14820												
		STD	1300	0289	3454	2755	0006296	1823	14831												
		STD	1400	0276	3455	2757	0006132	1885	14842												
200		OBS	T1491	0267	34558	2758			14854												

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIME HOUR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1163	PW	29576N	13957 W		086	99	09	16	187	1967	N09	014	3749	33	33	0	2		01	8	4	0014
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB															
				34	SU4	156	261	228	8	18													
MESSING TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C					
		STD	0000	2449	3508	2358	0043228	0000	15337														
		OBS	0000	2449	35081	2358			15337														
		STD	0010	2442	3508	2360	0043081	0043	15337														
		OBS	0010	2442	35079	2360			15337														
		STD	0020	2427	3507	2363	0042757	0086	15335														
		STD	0030	2412	3504	2366	0042594	0129	15333														
		OBS	0030	2412	35039	2366			15333														
		OBS	0049	2049	34900	2457			15241														
		STD	0050	2041	3490	2460	0033691	0205	15239														
		OBS	0074	1858	34788	2498			15191														
		STD	0075	1853	3478	2499	0030006	0285	15190														
		OBS	0098		34689																		
		STD	0100	1733	3467	2520	0028074	0357	15158														
		STD	0125	1606	3448	2535	0026687	0426	15121														
		STD	0150	1472	3431	2552	0025180	0491	15081														
		OBS	0150	1472	34305	2552			15081														
		STD	0200	1181	3401	2588	0021807	0608	14988														
		OBS	T0202	1172	34007	2589			14985														
		STD	0250	1057	3404	2613	0019500	0711	14953														
		STD	0300	0945	3408	2635	0017472	0804	14921														
		OBS	0301	0943	34080	2635			14920														
		STD	0400	0748	3400	2659	0015233	0967	14862														
		OBS	0401	0746	33996	2659			14861														
		STD	0500	0598	3403	2681	0013103	1109	14819														
		STD	0600	0491	3408	2698	0011506	1232	14793														
		OBS	0605	0487	34084	2699			14792														
		STD	0700	0443	3417	2710	0010364	1341	14791														
		STD	0800	0404	3426	2722	0009329	1440	14792														
		OBS	0804	0403	34266	2722			14793														
		STD	0900	0376	3435	2732	0008421	1529	14798														
		STD	1000	0350	3441	2739	0007755	1609	14805														
		OBS	1009	0348	34420	2740			14805														
		STD	1100	0330	3445	2744	0007301	1685	14813														
		STD	1200	0312	3449	2749	0006867	1756	14823														
		STD	1300	0294	3452	2753	0006502	1822	14832														
		STD	1400	0278	3454	2756	0006229	1886	14843														
		STD	1500	0262	3456	2759	0005952	1947	14853														
		OBS	T1514	0260	34562	2759			14854														
		OBS	T1747	0228	34589	2764			14880														
		STD	1750	0228	3459	2764	0005465	2090	14881														
		STD	2000	0209	3458	2765	0005435	2226	14915														
		OBS	2254	0191	34564	2765			14950														
		STD	2500	0174	3462	2771	0004669	2483	14986														
		OBS	2757	0161	34657	2775			15025														
		STD	3000	0153	3466	2775	0004475	2717	15063														
		OBS	T3265	0150	34658	2776			15108														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CHIT INDICATOR	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	1163	PW	3001 N	14008 W	123	00	09	17	216	1967	N09	015	4252	15	33	3	3		01	6	7	0015
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								09	509	186	244	228	7	13								
MESSAGE TIME HR 1/10	CAS T NO.	CARGO TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C				
		STD	0000	2456	3502	2351	0043854		0000	15338												
216		OBS	0000	2456	35022	2351				15338												
		STD	0010	2450	3507	2356	0043404		0044	15339												
216		OBS	0011	2446	35070	2358				15338												
		STD	0020	2375	3505	2377	0041432		0086	15322												
		STD	0030	2277	3502	2404	0038974		0126	15299												
216		OBS	0031	2266	35011	2406				15296												
		STD	0050	2019	3490	2465	0033133		0198	15233												
216		OBS	0051	2008	34894	2468				15231												
		STD	0075	1779	3462	2505	0029420		0277	15167												
216		OBS	0076	1773	34618	2506				15165												
		STD	0100	1739	3469	2520	0028103		0348	15160												
216		OBS	0101	1737	34688	2521				15159												
		STD	0125	1565	3446	2543	0025943		0416	15108												
		STD	0150	1407	3427	2563	0024107		0479	15059												
		STD	0200	1160	3402	2592	0021355		0592	14981												
216		OBS	T0204	1144	34006	2594				14976												
		STD	0250	1047	3405	2615	0019271		0694	14950												
		STD	0300	0947	3406	2633	0017644		0786	14921												
216		OBS	0307	0933	34064	2635				14917												
		STD	0400	0765	3400	2656	0015478		0952	14868												
216		OBS	0407	0753	33999	2658				14865												
		STD	0500	0604	3400	2678	0013404		1096	14821												
		STD	0600	0490	3405	2696	0011717		1422	14792												
216		OBS	0613	0478	34058	2698				14789												
		STD	0700	0441	3416	2710	0010414		1332	14790												
		STD	0800	0404	3426	2722	0009329		1431	14792												
216		OBS	0813	0400	34277	2723				14793												
		STD	0900	0377	3435	2731	0008433		1520	14799												
		STD	1000	0353	3442	2739	0007715		1601	14806												
216		OBS	T1018	0349	34428	2740				14808												
		STD	1100	0331	3444	2743	0007357		1676	14814												
		STD	1200	0310	3446	2747	0007035		1748	14822												
		STD	1300	0292	3448	2750	0006744		1817	14831												
		STD	1400	0275	3450	2753	0006459		1883	14841												
		STD	1500	0260	3452	2756	0006193		1946	14852												
216		OBS	T1533	0256	34531	2757				14855												

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRL INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1163	PW	3009 N	14002 W		123	00	09	18	202	1967	N09	016	4526	15	32	2	3		01	6	6	0016
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		ORY BULB	WET BULB											
									10	509	224	233	228	7	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	Σ Δ O DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SC						
		STD	0000	2435	3506	2360	0042965	0000	15333														
201		OBS	0000	2435	35062	2360			15333														
201		OBS	0009	2429	35061	2362			15334														
		STD	0010	2426	3506	2363	0042748	0043	15333														
		STD	0020	2377	3507	2378	0041330	0085	15323														
201		OBS	0028	2313	35080	2398			15308														
		STD	0030	2286	3508	2405	0038787	0125	15302														
201		OBS	0047	2072	34989	2458			15248														
		STD	0050	2034	3494	2465	0033223	0197	15238														
201		OBS	0071	1805	34653	2501			15174														
		STD	0075	1796	3465	2503	0029600	0275	15172														
		STD	0100	1724	3461	2518	0028304	0348	15154														
		STD	0125	1633	3452	2532	0026989	0417	15130														
201		OBS	0145	1544	34427	2545			15104														
		STD	0150	1513	3438	2548	0025490	0483	15095														
201		OBS	T0193	1277	34082	2575			15021														
		STD	0200	1250	3408	2580	0022569	0603	15013														
		STD	0250	1080	3408	2612	0019616	0708	14962														
201		OBS	0290	0973	34068	2629			14929														
		STD	0300	0958	3406	2631	0017822	0802	14925														
201		OBS	T0390	0817	34025	2650			14887														
		STD	0400	0795	3403	2654	0015733	0970	14880														
		STD	0500	0610	3402	2679	0013334	1115	14824														
201		OBS	0584	0508	34016	2691			14796														
		STD	0600	0506	3404	2693	0011985	1241	14798														
		STD	0700	0487	3417	2705	0010893	1356	14809														
201		OBS	0778	0461	34250	2715			14812														
		STD	0800	0447	3427	2718	0009765	1459	14810														
		STD	0900	0390	3435	2730	0008584	1551	14804														
201		OBS	0976	0354	34402	2738			14802														
		STD	1000	0350	3442	2740	0007681	1632	14805														
		STD	1100	0333	3447	2745	0007189	1707	14815														
		STD	1200	0316	3451	2750	0006769	1776	14825														
		STD	1300	0299	3454	2754	0006417	1842	14835														
		STD	1400	0283	3455	2756	0006209	1905	14845														
201		OBS	T1457	0273	34556	2758			14850														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'W'P'L'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER	SEA		TYPE	AMT	
311163	PW	30018N	140019W			123	00	09	19	198	1967	N09	017	4389	15	30	3	3		01	7	3	0017
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								09	S11	220	256	228	8	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M., x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	Si O ₄ -Si $\mu g - \text{at/l}$	pH	S C					
		STD	0000	2453	3510	2358	0043184		0000	15338													
198		OBS	0000	2453	35103	2358				15338													
198		OBS	0009	2444	35100	2361				15338													
		STD	0010	2433	3510	2364	0042651		0043	15335													
		STD	0020	2329	3513	2397	0039580		0084	15312													
198		OBS	0029		35153																		
		STD	0030	2229	3513	2425	0036878		0122	15288													
198		OBS	0049	2052	34878	2455				15242													
		STD	0050	2043	3489	2458	0033814		0193	15240													
198		OBS	0073	1851	34918	2510				15191													
		STD	0075	1838	3489	2511	0028849		0271	15187													
198		OBS	0098	1691	34620	2526				15144													
		STD	0100	1677	3460	2528	0027311		0341	15140													
		STD	0125	1517	3438	2548	0025503		0408	15092													
198		OBS	0149		34216																		
		STD	0150	1377	3421	2564	0023945		0469	15049													
		STD	0200	1157	3401	2592	0021374		0583	14980													
198		OBS	0201	1153	34009	2593				14979													
		STD	0250	1056	3408	2616	0019204		0684	14953													
		STD	0300	0958	3410	2634	0017535		0776	14926													
198		OBS	0300	0958	34099	2634				14926													
198		OBS	T0399	0769	34007	2656				14870													
		STD	0400	0767	3401	2657	0015433		0941	14869													
		STD	0500	0621	3401	2677	0013553		1086	14828													
		STD	0600	0513	3405	2693	0011997		1213	14801													
198		OBS	0601	0512	34051	2693				14801													
		STD	0700	0456	3416	2708	0010592		1326	14796													
198		OBS	0798	0411	34248	2720				14795													
		STD	0800	0410	3425	2720	0009473		1427	14795													
		STD	0900	0381	3433	2729	0008627		1517	14800													
		STD	1000	0355	3441	2738	0007849		1600	14807													
198		OBS	1000	0355	34405	2738				14807													
		STD	1100	0332	3446	2745	0007251		1675	14814													
		STD	1200	0311	3451	2751	0006708		1745	14823													
		STD	1300	0293	3454	2755	0006343		1810	14832													
		STD	1400	0278	3455	2757	0006155		1873	14843													
198		OBS	T1494	0267	34559	2758				14854													

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME GMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	163	PW	29595N	140025W		087	90	09	20	197	1967	N09	018		4206	15	34	3	3		01	7	5	0018
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		DRY BULB	WET BULB															
								01		S18	179	256	222	8	14									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ OYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	ATMOSP.				
		STD	0000	2437	3512	2364		0042618		0000		15335												
197		OBS	0000	2437	35118	2364						15335												
197		OBS	0009	2429	35116	2366						15334												
		STD	0010	2418	3512	2370		0042131		0042		15332												
		STD	0020	2310	3512	2401		0039156		0083		15307												
		STD	0030	2208	3511	2430		0036430		0121		15283												
197		OBS	0033		35114																			
		STD	0050	2023	3489	2464		0033307		0191		15234												
197		OBS	0051	2014	34877	2465						15232												
		STD	0075	1823	3479	2507		0029219		0469		15181												
197		OBS	0077	1811	34783	2510						15178												
		STD	0100	1706	3466	2525		0027559		0340		15149												
197		OBS	0100	1706	34656	2525						15149												
		STD	0125	1591	3447	2538		0026432		0407		15116												
		STD	0150	1469	3431	2553		0025081		0472		15080												
197		OBS	0151	1464	34301	2553						15078												
		STD	0200	1202	3403	2585		0022044		0589		14996												
197		OBS	T0202	1193	34024	2586						14993												
		STD	0250	1088	3410	2612		0019608		0694		14965												
		STD	0300	0989	3412	2630		0017888		0787		14938												
197		OBS	0302	0985	34124	2631						14937												
		STD	0400	0819	3401	2649		0016201		0958		14889												
197		OBS	0404	0813	34005	2649						14887												
		STD	0500	0647	3402	2674		0013797		1108		14839												
		STD	0600	0520	3404	2692		0012135		1437		14804												
197		OBS	0606	0514	34044	2692						14803												
		STD	0700	0459	3415	2707		0010702		1352		14797												
		STD	0800	0413	3424	2719		0009582		1453		14796												
197		OBS	0810	0409	34253	2721						14796												
		STD	0900	0383	3433	2729		0008650		1544		14801												
		STD	1000	0357	3440	2737		0007909		1627		14808												
197		OBS	1012	0354	34410	2739						14808												
		STD	1100	0333	3444	2743		0007432		1704		14815												
		STD	1200	0312	3447	2747		0007036		1776		14823												
		STD	1300	0293	3450	2751		0006660		1844		14832												
		STD	1400	0277	3453	2755		0006313		1909		14842												
		STD	1500	0263	3456	2759		0005978		1971		14853												
197		OBS	T1524	0260	34565	2760						14856												

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DATE MO DAY HR.1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER						DIR.	HGT			PER	SEA	TYPE	AMT				
311163	PW	2901 N	14006 W	087 90 09 21 217	1967	N09	019	4846	14	01	3	3		02	7	8	0019	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB													
		02	S17	169	239	222	8	14										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	TEMP. °C	
		STD	0000	2480	3536	2369	0042145	0000	15348									
217		OBS	0000	2480	35355	2369			15348									
217		OBS	0009	2478	35355	2370			15349									
		STD	0010	2470	3536	2372	0041896	0042	15347									
		STD	0020	2385	3536	2398	0039507	0083	15328									
217		OBS	0029		35357													
		STD	0030	2294	3534	2423	0037131	0121	15307									
217		OBS	0045	2144	35087	2466			15268									
		STD	0050	2069	3501	2460	0033610	0192	15248									
217		OBS	0069	1872	34841	2499			15195									
		STD	0075	1855	3486	2505	0029473	0271	15191									
217		OBS	0090	1816	34896	2517			15183									
		STD	0100	1801	3489	2520	0028085	0343	15180									
		STD	0125	1754	3486	2530	0027258	0412	15170									
217		OBS	0134	1734	34850	2534			15166									
		STD	0150	1695	3478	2538	0026566	0479	15156									
217		OBS	T0178	1613	34656	2547			15134									
		STD	0200	1498	3451	2562	0024370	0606	15100									
		STD	0250	1277	3425	2588	0021960	0722	15032									
217		OBS	0271	1201	34182	2597			15009									
		STD	0300	1131	3416	2609	0020037	0827	14989									
217		OBS	T0364	0986	34123	2631			14947									
		STD	0400	0901	3408	2642	0016952	1012	14921									
		STD	0500	0702	3401	2666	0014658	1170	14860									
217		OBS	0553	0620	34004	2676			14836									
		STD	0600	0570	3405	2686	0012715	1307	14825									
		STD	0700	0484	3415	2704	0011005	1426	14807									
217		OBS	0741	0457	34195	2711			14804									
		STD	0800	0437	3426	2718	0009718	1529	14806									
		STD	0900	0406	3435	2729	0008773	1622	14811									
217		OBS	0927	0398	34368	2731			14812									
		STD	1000	0377	3442	2737	0007995	1706	14816									
		STD	1100	0351	3447	2744	0007398	1783	14823									
		STD	1200	0327	3451	2749	0006894	1854	14830									
		STD	1300	0306	3453	2753	0006568	1921	14838									
		STD	1400	0287	3454	2755	0006356	1986	14846									
217		OBS	1400	0287	34537	2755			14846									

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUA RE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT		
31	1163	PW	3004 N	14006 W	123	00	09	22	194	1967	N09	020	4343	15	35	2	3		01	8	3		0020			
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
							06	518	203		250	222	8	14												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C									
		STD	0000	2423	3515	2370	0042018	0000	15332																	
194		OBS	0000	2423	35146	2370			15332																	
		STD	0010	2417	3514	2372	0041901	0042	15332																	
194		OBS	0010	2417	35144	2372			15332																	
		STD	0020	2409	3514	2374	0041765	0084	15331																	
		STD	0030	2401	3513	2376	0041622	0125	15331																	
194		OBS	0032	2399	35127	2376			15331																	
		STD	0050	2049	3488	2456	0034032	0201	15241																	
194		OBS	0050	2049	34881	2456			15241																	
		STD	0075	1867	3497	2510	0029000	0280	15196																	
194		OBS	0076	1860	34968	2512			15194																	
194		OBS	0099	1703	34696	2529			15149																	
		STD	0100	1696	3468	2530	0027158	0350	15147																	
		STD	0125	1541	3442	2545	0025720	0416	15100																	
194		OBS	0148	1410	34229	2559			15060																	
		STD	0150	1399	3422	2561	0024311	0479	15056																	
194		OBS	T0198	1167	34014	2591			14983																	
		STD	0200	1162	3402	2592	0021391	0593	14982																	
		STD	0250	1051	3406	2615	0019265	0695	14951																	
194		OBS	0298	0953	34079	2633			14924																	
		STD	0300	0949	3408	2634	0017544	0787	14922																	
194		OBS	0398	0777	34016	2656			14873																	
		STD	0400	0773	3402	2657	0015446	0952	14872																	
		STD	0500	0608	3402	2679	0013308	1095	14823																	
		STD	0600	0492	3405	2696	0011711	1220	14793																	
194		OBS	0600	0492	34054	2696			14793																	
		STD	0700	0449	3416	2709	0010509	1332	14793																	
		STD	0800	0412	3425	2720	0009497	1432	14795																	
194		OBS	0803	0411	34252	2720			14796																	
		STD	0900	0383	3433	2729	0008650	1522	14801																	
		STD	1000	0356	3440	2738	0007898	1605	14807																	
194		OBS	1009	0354	34409	2738			14808																	
		STD	1100	0332	3446	2745	0007251	1681	14814																	
		STD	1200	0311	3451	2751	0006708	1751	14823																	
		STD	1300	0292	3454	2755	0006331	1816	14832																	
		STD	1400	0276	3456	2758	0006059	1878	14842																	
		STD	1500	0262	3456	2759	0005952	1938	14853																	
194		OBS	T1538	0258	34563	2760			14858																	

TABLE VI. Observed and interpolated oceanographic data for stations taken by USCGC TANAY at Ocean Station NOVEMBER, 15 October-5 November 1967, prepared from NODC Listing No. 31-1178 RT.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1178	RT	2943 N	14000 W	087	90	10	15	239	1967	N10	001	4755	15	09		3			X1	8	5	0001
						WATER		WIND		BARO-METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
								09	516	190	244	233	7	14									
MESSAGE NO. HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	σ_{θ}					
		STD	0000	2389	3525	2389	0040277		0000	15325													
239		OBS	0000	2389	35254	2389				15325													
239		OBS	0009	2389	35254	2389				15326													
		STD	0010	2389	3525	2389	0040319		0040	15326													
		STD	0020	2390	3526	2388	0040387		0081	15328													
		STD	0030	2392	3526	2388	0040449		0121	15330													
239		OBS	0032	2392	35257	2388				15331													
		STD	0050	2171	3500	2432	0036350		0198	15275													
239		OBS	0050	2171	34999	2432				15275													
		STD	0075	1878	3471	2487	0031114		0282	15196													
239		OBS	0075	1878	34710	2487				15196													
239		OBS	0097	1750	34681	2517				15162													
		STD	0100	1735	3466	2519	0028192		0356	15158													
		STD	0125	1605	3450	2537	0026519		0425	15121													
239		OBS	0143	1509	34375	2549				15092													
		STD	0150	1465	3431	2554	0024999		0489	15079													
239		OBS	0190	1249	34055	2578				15011													
		STD	0200	1217	3406	2585	0022100		0607	15001													
		STD	0250	1070	3409	2614	0019370		0711	14958													
239		OBS	0288	0976	34095	2631				14931													
		STD	0300	0954	3408	2633	0017610		0803	14924													
239		OBS	T0383	0807	34022	2652				14882													
		STD	0400	0774	3402	2656	0015454		0968	14872													
		STD	0500	0608	3401	2678	0013360		1112	14823													
239		OBS	T0567	0526	34007	2688				14801													
		STD	0600	0502	3405	2694	0011862		1238	14797													
		STD	0700	0441	3417	2711	0010340		1349	14790													
239		OBS	0742	0420	34213	2716				14789													
		STD	0800	0401	3427	2723	0009220		1447	14791													
		STD	0900	0370	3435	2732	0008352		1535	14796													
239		OBS	T0940	0359	34378	2735				14798													
		STD	1000	0344	3442	2740	0007612		1615	14802													
		STD	1100	0321	3447	2746	0007050		1688	14810													
		STD	1200	0302	3451	2751	0006604		1757	14819													
		STD	1300	0287	3454	2755	0006273		1821	14830													
		STD	1400	0276	3455	2757	0006132		1883	14842													
239		OBS	T1480	0270	34556	2758				14853													

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DBIT INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CRUY CODE	ID. NO.						MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER		DIR	HGT	PER		SEA	TYPE		AMT				
311178	RT		30015N	140023W		123	00	10	16	199	1967	N10	002	4755	14	06		3		X1	6	6		0002	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB													
								08	508	200	250	222	7	14											
MESSNGR TIME OF HR 1/10	CST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C							
		STD	0000	2375	3524	2391	0040006		0000	15321															
199		OBS	0000	2375	35237	2391				15321															
199		OBS	0009	2372	35238	2392				15322															
		STD	0010	2372	3524	2392	0039951		0040	15322															
		STD	0020	2371	3524	2393	0039932		0080	15323															
		STD	0030	2369	3524	2394	0039915		0120	15325															
199		OBS	0033	2369	35245	2394				15325															
		STD	0050	2165	3498	2432	0036328		0196	15273															
199		OBS	0052	2141	34956	2437				15267															
		STD	0075	1854	3473	2495	0030392		0279	15190															
199		OBS	0080	1816	34710	2503				15179															
		STD	0100	1766	3474	2518	0028313		0353	15168															
199		OBS	0103	1756	34747	2520				15166															
		STD	0125	1655	3458	2532	0027042		0422	15137															
		STD	0150	1531	3440	2546	0025726		0488	15101															
199		OBS	0154	1510	34370	2548				15094															
		STD	0200	1239	3406	2580	0022509		0609	15009															
199		OBS	T0207	1206	34031	2585				14998															
		STD	0250	1108	3406	2605	0020222		0715	14972															
		STD	0300	0998	3410	2628	0018162		0811	14941															
199		OBS	0307	0983	34108	2630				14936															
		STD	0400	0793	3402	2654	0015740		0981	14879															
199		OBS	T0408	0778	34011	2655				14875															
		STD	0500	0607	3402	2679	0013295		1126	14823															
199		OBS	T0594	0485	34066	2697				14789															
		STD	0600	0482	3407	2698	0011472		1250	14789															
		STD	0700	0436	3419	2713	0010133		1358	14788															
199		OBS	0792	0403	34284	2724				14791															
		STD	0800	0401	3429	2724	0009072		1454	14791															
		STD	0900	0379	3437	2733	0008308		1541	14800															
199		OBS	0982	0361	34420	2739				14806															
		STD	1000	0357	3443	2740	0007688		1621	14808															
		STD	1100	0335	3448	2746	0007137		1695	14816															
		STD	1200	0314	3452	2751	0006669		1764	14824															
		STD	1300	0292	3455	2756	0006257		1829	14832															
		STD	1400	0271	3456	2758	0006001		1890	14840															
199		OBS	T1450	0260	34563	2759				14844															

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1178	RT	30008N	139597W		122	09	10	17	196	1967	N10	003	4531	16	07		3		X1	6	6	0003
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								07	S05	200	239	233	8	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₂ -Si $\mu g - at/l$	pH	S C/C					
		STD	0000	2367	3522	2392	0039912		0000	15319													
196		OBS	0000	2367	35219	2392				15319													
		STD	0010	2366	3522	2393	0039915		0040	15320													
196		OBS	0010	2366	35220	2393				15320													
		STD	0020	2366	3522	2393	0039943		0080	15322													
		STD	0030	2365	3522	2393	0039970		0120	15323													
196		OBS	0034	2365	35220	2393				15324													
		STD	0050	2128	3501	2444	0035139		0195	15264													
196		OBS	0054	2081	34972	2454				15252													
		STD	0075	1939	3491	2487	0031152		0278	15216													
196		OBS	0083	1892	34884	2497				15203													
		STD	0100	1809	3484	2515	0028606		0352	15182													
196		OBS	0107	1778	34821	2521				15174													
		STD	0125	1732	3475	2526	0027549		0423	15162													
		STD	0150	1640	3462	2538	0026494		0490	15137													
196		OBS	0160	1594	34557	2544				15124													
		STD	0200	1329	3419	2573	0023277		0615	15041													
196		OBS	T0214	1252	34095	2581				15016													
		STD	0250	1132	3409	2603	0020455		0724	14980													
		STD	0300	0989	3408	2627	0018182		0821	14937													
196		OBS	0318	0944	34075	2634				14923													
		STD	0400	0791	3401	2653	0015784		0990	14878													
196		OBS	T0422	0753	34003	2658				14867													
		STD	0500	0619	3401	2677	0013526		1137	14827													
		STD	0600	0491	3406	2696	0011654		1263	14793													
196		OBS	T0618	0474	34073	2699				14789													
		STD	0700	0436	3417	2711	0010281		1373	14788													
		STD	0800	0399	3427	2723	0009197		1470	14790													
196		OBS	0826	0391	34297	2726				14792													
		STD	0900	0378	3436	2732	0008370		1558	14799													
		STD	1000	0360	3443	2740	0007722		1638	14809													
196		OBS	T1037	0353	34451	2742				14813													
		STD	1100	0341	3447	2744	0007318		1713	14818													
		STD	1200	0323	3449	2748	0007009		1785	14828													
		STD	1300	0304	3451	2751	0006684		1854	14837													
		STD	1400	0286	3453	2755	0006367		1919	14846													
		STD	1500	0267	3456	2758	0006040		1981	14855													
196		OBS	T1586	0250	34576	2761				14862													

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311178		RT	2943 N	14034 W		087	90	10	18	043	1967	N10	004	4297	15	34		3		X1	6	4	0004
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								06	S15	230	239	228	8	14									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	Si O ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C						
		STD	0000	2381	3527	2392	0039951	0000	15323														
043		OBS	0000	2381	35268	2392			15323														
043		OBS	0009	2373	35271	2395			15322														
		STD	0010	2373	3527	2395	0039741	0040	15322														
		STD	0020	2372	3527	2395	0039772	0080	15324														
		STD	0030	2371	3527	2395	0039800	0119	15325														
043		OBS	0032	2371	35266	2395			15326														
		STD	0050	2072	3503	2461	0033543	0193	15249														
043		OBS	0051	2059	35017	2464			15246														
		STD	0075	1873	3493	2506	0029398	0271	15197														
043		OBS	0078	1855	34921	2509			15193														
		STD	0100	1753	3486	2530	0027140	0342	15166														
043		OBS	0100	1753	34862	2530			15166														
		STD	0125	1627	3461	2540	0026202	0409	15129														
		STD	0150	1493	3439	2553	0025034	0473	15089														
043		OBS	0150	1493	34385	2553			15089														
		STD	0200	1200	3403	2586	0022007	0590	14995														
043		OBS	T0201	1195	34025	2586			14994														
		STD	0250	1071	3408	2613	0019461	0694	14959														
043		OBS	0299	0961	34091	2633			14927														
		STD	0300	0959	3409	2633	0017617	0787	14926														
043		OBS	T0398	0781	34006	2654			14874														
		STD	0400	0777	3401	2655	0015608	0953	14873														
		STD	0500	0604	3403	2680	0013211	1097	14822														
043		OBS	T0591	0493	34043	2695			14792														
		STD	0600	0488	3405	2696	0011692	1222	14791														
		STD	0700	0440	3416	2710	0010402	1332	14789														
043		OBS	0790	0406	34255	2721			14791														
		STD	0800	0404	3427	2722	0009255	1430	14792														
		STD	0900	0380	3436	2732	0008393	1519	14800														
043		OBS	0983	0361	34419	2739			14807														
		STD	1000	0357	3443	2740	0007688	1599	14808														
		STD	1100	0335	3449	2747	0007064	1673	14816														
		STD	1200	0314	3453	2752	0006595	1741	14824														
		STD	1300	0293	3456	2756	0006195	1805	14833														
		STD	1400	0273	3456	2758	0006024	1866	14841														
043		OBS	T1451	0263	34562	2759			14845														

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	OBT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	1178	RT	2949 N	14013 W		087	90	10	19	188	1967	N10	005	4389	14	07		3		X1	8	2	0005			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
								06	509	240	250	239	8	14												
MESSENGER TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta O$ GYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	Σ C									
		STD	0000	2364	3529	2399	0039316	0000	15319																	
188		OBS	0000	2364	35290	2399			15319																	
188		OBS	0009	2364	35286	2398			15320																	
		STD	0010	2364	3529	2398	0039386	0039	15320																	
		STD	0020	2365	3528	2398	0039472	0079	15322																	
		STD	0030	2366	3528	2398	0039547	0118	15324																	
188		OBS	0032	2366	35280	2397			15324																	
		STD	0050	2122	3498	2444	0035228	0193	15262																	
188		OBS	0050	2122	34976	2444			15262																	
		STD	0075	1880	3478	2492	0030655	0275	15198																	
188		OBS	0078	1858	34764	2497			15192																	
		STD	0100	1749	3473	2521	0028021	0349	15163																	
188		OBS	0100	1749	34728	2521			15163																	
		STD	0125	1657	3461	2534	0026868	0417	15138																	
188		OBS	0149	1546	34464	2548			15106																	
		STD	0150	1539	3445	2548	0025532	0483	15104																	
188		OBS	T0199	1245	34053	2579			15011																	
		STD	0200	1242	3405	2579	0022616	0603	15010																	
		STD	0250	1085	3407	2610	0019798	0709	14963																	
188		OBS	0295	0964	34080	2631			14927																	
		STD	0300	0953	3407	2632	0017667	0803	14924																	
188		OBS	T0397	0756	34004	2658			14864																	
		STD	0400	0750	3401	2659	0015225	0967	14863																	
		STD	0500	0592	3402	2681	0013077	1109	14817																	
188		OBS	T0585	0495	34039	2694			14791																	
		STD	0600	0487	3406	2697	0011606	1232	14791																	
		STD	0700	0438	3418	2712	0010231	1342	14789																	
188		OBS	0778	0407	34262	2721			14790																	
		STD	0800	0400	3428	2724	0009135	1438	14791																	
		STD	0900	0372	3437	2734	0008227	1525	14797																	
188		OBS	0971	0353	34420	2739			14801																	
		STD	1000	0346	3443	2741	0007568	1604	14803																	
		STD	1100	0322	3446	2746	0007143	1678	14810																	
		STD	1200	0302	3449	2750	0006759	1747	14819																	
		STD	1300	0283	3452	2754	0006382	1813	14828																	
		STD	1400	0268	3455	2758	0006047	1875	14839																	
188		OBS	T1450	0261	34564	2759			14844																	

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
31	1178	RT	29594N	140060W		087	90	10	20	189	1967	N10	006	3658	16	35	2	3		X1	8	3	0006	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB											
								05	S09	240		250	222	7	14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C							
		STD	0000	2367	3527	2397	0039515	0000	15319															
189		OBS	0000	2367	35274	2397			15319															
		STD	0010	2360	3527	2399	0039365	0039	15319															
189		OBS	0010	2360	35273	2399			15319															
		STD	0020	2362	3521	2393	0039906	0079	15321															
		STD	0030	2363	3516	2389	0040350	0119	15322															
189		OBS	0034	2364																				
		STD	0050	2023	3505	2476	0032148	0192	15236															
189		OBS	0053	1976	34940	2480Q																		
		STD	0075	1827	3492	2516	0028370	0267	15184															
189		OBS	0082	1792	3483Q	2518Q																		
		STD	0100	1740	3479	2528	0027363	0337	15161															
189		OBS	0107	1714	3480Q	2535Q																		
		STD	0125	1613	3468	2549	0025384	0403	15126															
		STD	0150	1477	3458	2572	0023277	0464	15086															
189		OBS	0160	1424	3431Q	2562Q																		
		STD	0200	1214	3439	2611	0019625	0571	15005															
189		OBS	0214	1155																				
		STD	0250	1083	3425	2624	0018419	0666	14965															
		STD	0300	0983	3413	2632	0017715	0756	14936															
189		OBS	0322	0939	34093	2637			14923															
		STD	0400	0777	3401	2655	0015579	0923	14873															
189		OBS	T0433	0717	33997	2663			14855															
		STD	0500	0619	3402	2678	0013452	1068	14828															
		STD	0600	0504	3408	2696	0011664	1194	14798															
189		OBS	T0644	0466	34111	2703			14790															
		STD	0700	0441	3417	2711	0010340	1304	14790															
		STD	0800	0403	3426	2722	0009318	1402	14792															
189		OBS	0861	0385	34316	2728			14795															
		STD	0900	0378	3435	2731	0008444	1491	14799															
		STD	1000	0360	3442	2739	0007796	1572	14809															
189		OBS	T1071	0347	34460	2743			14816															
		STD	1100	0342	3447	2744	0007322	1648	14819															
		STD	1200	0324	3449	2748	0007021	1719	14828															
		STD	1300	0305	3451	2751	0006711	1788	14837															
		STD	1400	0287	3453	2754	0006400	1854	14846															
		STD	1500	0269	3455	2758	0006093	1916	14856															
189		OBS	T1633	0245	34581	2762			14868															

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311	178	RT	3001 N	140015 W		123	00	10	21	183	1967	N10	007	4460	15	35		3		X1	8	2	0007
						WATER		WIND		SARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLDER CODE		TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB																
						08	505	260	239	228	8	14											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	2368	3529	2397	0039435		0000	15320													
183		OBS	0000	2368	35289	2397				15320													
		STD	0010	2364	3529	2399	0039376		0039	15320													
183		OBS	0010	2364	35287	2399				15320													
		STD	0020	2364	3529	2398	0039422		0079	15322													
		STD	0030	2364	3528	2398	0039475		0118	15324													
183		OBS	0030	2364	35284	2398				15324													
		STD	0050	2116	3503	2449	0034688		0192	15261													
183		OBS	0050	2116	35029	2449				15261													
		STD	0075	1859	3493	2509	0029061		0472	15193													
183		OBS	0075	1851	34923	2511				15191													
		STD	0100	1715	3472	2528	0027299		0343	15153													
183		OBS	0101	1710	34710	2529				15151													
		STD	0125	1639	3462	2538	0026395		0410	15133													
		STD	0150	1546	3451	2551	0025244		0474	15107													
183		OBS	0153	1534	34493	2553				15103													
		STD	0200	1289	3418	2580	0022576		0594	15027													
183		OBS	T0208	1254	34146	2584				15016													
		STD	0250	1128	3413	2607	0020090		0700	14979													
		STD	0300	0993	3411	2629	0018028		0796	14939													
183		OBS	0307	0975	34103	2631				14933													
		STD	0400	0770	3401	2656	0015477		0963	14870													
183		OBS	T0406	0758	34007	2658				14867													
		STD	0500	0608	3403	2680	0013256		1107	14823													
		STD	0600	0493	3405	2695	0011760		1432	14793													
183		OBS	T0605	0488	34050	2696				14792													
		STD	0700	0439	3420	2713	0010094		1341	14789													
183		OBS	0795	0402	34306	2725				14791													
		STD	0800	0400	3431	2726	0008912		1436	14791													
		STD	0900	0374	3439	2735	0008102		1521	14798													
183		OBS	T0996	0361	34420	2739				14809													
183		OBS	14910	0263	34568	2760																	

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
311	178	RT	30128N	13952 W		122	09	10	22	183	1967	N10	008	4206	15	34	2	3		X1	8	2	0008			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								08		S06	281	250	239	8	14											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S °C							
		STD	0000	2392	3540	2399		0039331		0000	15327															
183		OBS	0000	2392	35397	2399					15327															
		STD	0010	2392	3540	2399		0039370		0039	15329															
183		OBS	0010	2392	35397	2399					15329															
		STD	0020	2392	3540	2399		0039402		0079	15330															
		STD	0030	2391	3539	2399		0039441		0118	15332															
183		OBS	0030	2391	35394	2399					15332															
		STD	0050	2037	3506	2473		0032431		0190	15240															
183		OBS	0051	2025	35047	2475					15237															
		STD	0075	1897	3502	2507		0029305		0267	15205															
183		OBS	0076	1891	35022	2508					15204															
		STD	0100	1724	3495	2544		0025833		0336	15158															
183		OBS	0102	1712	34945	2546					15155															
		STD	0125	1654	3486	2553		0024982		0400	15140															
		STD	0150	1584	3473	2560		0024462		0461	15121															
183		OBS	0155		34703																					
		STD	0200	1422	3438	2568		0023744		0582	15074															
183		OBS	T0209	1390	34326	2571					15064															
		STD	0250	1193	3420	2600		0020751		0693	15003															
		STD	0300	1004	3409	2626		0018358		0791	14943															
183		OBS	0306	0985	34083	2628					14937															
		STD	0400	0798	3402	2653		0015814		0962	14881															
183		OBS	T0403	0792	34016	2653					14879															
		STD	0500	0620	3404	2679		0013347		1108	14828															
183		OBS	T0598	0498	34057	2695					14795															
		STD	0600	0497	3406	2696		0011727		1233	14795															
		STD	0700	0447	3418	2711		0010337		1343	14792															
183		OBS	0789	0412	34278	2722					14794															
		STD	0800	0408	3429	2724		0009154		1441	14794															
		STD	0900	0380	3438	2734		0008245		1528	14800															
183		OBS	T0989	0363	34441	2740					14809															
183		OBS	14900	0265	34569	2759																				

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CHART INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	1178	RT	3005 N	14007 W		123	00	10	23	229	1967	N10	009	4437	16	33		4		X5	5	6	0009
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								14	S12	210		228	228	7	14								
MESSAGE NO. HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	TEMP °C						
		STD	0000	2376	3528	2395	0039717	0000	15322														
229		OBS	0000	2376	35281	2395			15322														
		STD	0010	2364	3528	2398	0039448	0040	15320														
229		OBS	0010	2364	35277	2398			15320														
		STD	0020	2363	3528	2398	0039465	0079	15322														
		STD	0030	2362	3528	2398	0039481	0119	15323														
229		OBS	0035	2362	35277	2398			15324														
		STD	0050	2093	3503	2456	0034084	0192	15255														
229		OBS	0054	2035	34977	2467			15239														
		STD	0075	1842	3488	2509	0029017	0271	15188														
229		OBS	0084	1786	34858	2522			15173														
		STD	0100	1740	3485	2532	0026956	0341	15162														
229		OBS	0109	1712	34839	2538			15155														
		STD	0125	1666	3475	2542	0026051	0407	15143														
		STD	0150	1578	3460	2551	0025278	0471	15118														
229		OBS	0163	1524	34518	2557			15102														
		STD	0200	1320	3424	2578	0022736	0591	15039														
229		OBS	T0218	1236	34137	2587			15012														
		STD	0250	1142	3412	2603	0020413	0699	14984														
		STD	0300	1006	3409	2625	0018391	0796	14943														
229		OBS	0326	0942	34077	2635			14924														
		STD	0400	0781	3401	2655	0015637	0966	14875														
229		OBS	T0437	0712	33994	2663			14854														
		STD	0500	0618	3402	2678	0013439	1112	14827														
		STD	0600	0501	3408	2697	0011627	1237	14797														
229		OBS	T0646	0460	34112	2704			14788														
		STD	0700	0437	3417	2711	0010293	1347	14788														
		STD	0800	0400	3427	2723	0009209	1444	14791														
229		OBS	0857	0382	34319	2729			14793														
		STD	0900	0370	3435	2732	0008352	1532	14796														
		STD	1000	0349	3442	2740	0007669	1612	14804														
229		OBS	T1066	0340	34462	2744			14812														
229		OBS	15800	0242	34580	2762																	

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DIR INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT			
31	1178	RT	30038N	14009 W		123	00	10	24	182	1967	N10	010	4389	16	33		3		X5	8 8	0010				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB																	
								13	508	203	228	228	7	14												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SIO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C/C									
		STD	0000	2359	3527	2398	0039356	0000	15317																	
182		OBS	0000	2359	35265	2398			15317																	
		STD	0010	2359	3527	2399	0039366	0039	15319																	
182		OBS	0010	2359	35269	2399			15319																	
		STD	0020	2359	3527	2398	0039416	0079	15321																	
		STD	0030	2360	3527	2398	0039473	0118	15323																	
182		OBS	0035	2360	35268	2398			15323																	
		STD	0050	2087	3500	2455	0034146	0192	15253																	
182		OBS	0054	2030	34956	2467			15238																	
		STD	0075	1871	3500	2511	0028864	0271	15198																	
182		OBS	0084	1823	35015	2525			15185																	
		STD	0100	1780	3495	2530	0027128	0341	15175																	
182		OBS	0108	1757	34918	2533			15169																	
		STD	0125	1718	3485	2537	0026502	0408	15159																	
		STD	0150	1633	3471	2547	0025684	0473	15136																	
182		OBS	0163	1576	34623	2553			15120																	
		STD	0200	1334	3426	2577	0022863	0594	15043																	
182		OBS	T0217	1242	34139	2586			15014																	
		STD	0250	1138	3412	2604	0020342	0702	14983																	
		STD	0300	1000	3409	2626	0018291	0799	14941																	
182		OBS	0323	0943	34072	2634			14924																	
		STD	0400	0793	3401	2653	0015814	0969	14879																	
182		OBS	T0430	0740	34001	2660			14864																	
		STD	0500	0628	3401	2676	0013646	1117	14831																	
		STD	0600	0504	3406	2695	0011812	1244	14798																	
182		OBS	T0639	0468	34086	2701			14790																	
		STD	0700	0440	3416	2710	0010402	1355	14789																	
		STD	0800	0401	3427	2723	0009220	1453	14791																	
182		OBS	0852	0385	34318	2728			14794																	
		STD	0900	0373	3436	2733	0008312	1541	14797																	
		STD	1000	0354	3442	2739	0007727	1621	14807																	
182		OBS	T1065	0347	34454	2743			14815																	
182		OBS	1614Q	0248	34581	2762																				

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS INDIC	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311	178	RT	30055N	140123W		123	00	10	25	198		1967	N10	011	4023	16	30				x1	8 5	0011
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB																
				18	S12	237	244	233	7	14													
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C						
		STD	0000	2386	3538	2399	0039313	0000	15325														
198		OBS	0000	2386	35376	2399			15325														
		STD	0010	2386	3538	2399	0039352	0039	15327														
198		OBS	0010	2386	35376	2399			15327														
		STD	0020	2386	3537	2399	0039401	0079	15328														
		STD	0030	2385	3537	2399	0039451	0118	15330														
198		OBS	0034	2385	35369	2399			15330														
		STD	0050	2184	3517	2441	0035400	0193	15280														
198		OBS	0052	2162	35146	2445			15275														
		STD	0075	1973	3506	2490	0030908	0276	15227														
198		OBS	0081	1932	35032	2498			15216														
		STD	0100	1829	3490	2514	0028646	0350	15188														
198		OBS	0105	1806	34877	2518			15182														
		STD	0125	1770	3487	2526	0027557	0421	15175														
		STD	0150	1692	3479	2539	0026425	0488	15155														
198		OBS	0157	1664	34756	2543			15147														
		STD	0200	1411	3432	2566	0023958	0614	15070														
198		OBS	T0211	1354	34234	2571			15052														
		STD	0250	1177	3417	2601	0020678	0726	14997														
		STD	0300	0997	3410	2627	0018167	0823	14940														
198		OBS	0310	0968	34084	2631			14931														
		STD	0400	0807	3402	2652	0015948	0993	14885														
198		OBS	T0409	0792	34013	2653			14880														
		STD	0500	0629	3402	2676	0013585	1141	14832														
		STD	0600	0500	3407	2696	0011689	1267	14796														
198		OBS	0605	0495	34071	2697			14795														
		STD	0700	0446	3418	2711	0010325	1378	14792														
		STD	0800	0405	3429	2724	0009119	1475	14793														
198		OBS	0809	0402	34294	2724			14793														
		STD	0900	0381	3437	2733	0008331	1562	14801														
		STD	1000	0359	3443	2740	0007711	1642	14809														
198		OBS	T1006	0358	34436	2740			14809														
		STD	1100	0338	3446	2744	0007320	1717	14817														
		STD	1200	0318	3449	2748	0006973	1789	14826														
		STD	1300	0299	3451	2752	0006633	1857	14834														
		STD	1400	0282	3454	2755	0006312	1922	14844														
		STD	1500	0265	3456	2759	0005987	1983	14854														
198		OBS	T1553	0256	34573	2761			14859														

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	178	RT	30001N	140053W		123	00	10	26	185	1967	N10	012	4390	43	33	2	3		X1	8	1	0012	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB												
								13	502	247	256	233	7	20										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - \text{ol/l}$	TOTAL-P $\mu g - \text{ol/l}$	NO ₂ -N $\mu g - \text{ol/l}$	NO ₃ -N $\mu g - \text{ol/l}$	SiO ₄ -Si $\mu g - \text{ol/l}$	pH	S C C						
		STO	0000	2345	3516	2394	0039752	0000	15313															
185		OBS	0000	2345	35156	2394			15313															
		STO	0010	2345	3516	2394	0039798	0040	15314															
185		OBS	0010	2345	35155	2394			15314															
		STO	0020	2348	3517	2394	0039820	0080	15317															
		STO	0030	2350	3518	2394	0039841	0119	15319															
185		OBS	0030	2350	35179	2394			15319															
		STO	0050	2179	3500	2430	0036526	0196	15277															
185		OBS	0050	2179	35004	2430			15277															
		STO	0075	1820	3470	2501	0029838	0279	15179															
185		OBS	0075	1820	34695	2501			15179															
		STO	0100	1727	3469	2523	0027776	0351	15156															
185		OBS	0100	1727	34692	2523			15156															
		STO	0125	1631	3456	2536	0026054	0419	15150															
		STO	0150	1515	3442	2551	0025241	0484	15096															
185		OBS	0152	1505	34405	2552			15093															
		STO	0200	1216	3411	2589	0021715	0601	15002															
185		OBS	0205	1192	34094	2592			14994															
		STO	0250	1090	3410	2612	0019621	0704	14966															
		STO	0300	0978	3411	2632	0017758	0798	14934															
185		OBS	0305	0967	34114	2634			14930															
		STO	0400	0757	3400	2657	0015362	0963	14865															
185		OBS	T0405	0747	33996	2658			14862															
		STO	0500	0601	3401	2679	0013290	1107	14820															
		STO	0600	0490	3406	2696	0011642	1231	14792															
185		OBS	0607	0484	34061	2697			14791															
		STO	0700	0440	3417	2711	0010328	1341	14789															
		STO	0800	0402	3427	2723	0009232	1439	14791															
185		OBS	0805	0400	34275	2723			14792															
		STO	0900	0378	3436	2732	0008370	1527	14799															
		STO	1000	0356	3443	2740	0007698	1607	14807															
185		OBS	T1000	0356	34427	2740			14807															
		STO	1100	0336	3446	2744	0007297	1682	14816															
		STO	1200	0316	3449	2749	0006913	1753	14825															
		STO	1300	0298	3452	2753	0006548	1821	14834															
		STO	1400	0281	3454	2756	0006264	1885	14844															
		STO	1500	0266	3456	2759	0005999	1946	14855															
185		OBS	T1517	0263	34564	2750			14856															
		STO	1750	0232	3459	2764	0005506	2090	14883															
		STO	2000	0205	3462	2769	0005072	2222	14914															
239		OBS	T2245	0185	34637	2771			14947															
		STO	2500	0171	3465	2774	0004613	2464	14985															
239		OBS	T2719	0162	34661	2775			15019															
		STO	3000	0155	3467	2776	0004445	2691	15064															
239		OBS	3233	0151	34669	2777			15103															
239		OBS	T3770	0148	34679	2778			15196															
		STO	4000	0149	3468	2777	0004537	3140	15237															
239		OBS	T4237	0151	34677	2777			15280															
239		OBS	42700	0151	34683	2778																		

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSON SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1178	RT	29594N	140147W		087	90	10	27	180	1967	N10	013	4389	15	32	2	3		X1	8	6	0013
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								10	S07		257	250					233	7	14				
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ²		Σ Δ ρ DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC				
		STD	0000	2348	3519	2396	0039619		0000		15314												
180		OBS	0000	2348	35186	2396					15314												
		STD	0010	2347	3519	2396	0039637		0040		15315												
180		OBS	0010	2347	35185	2396					15315												
		STD	0020	2350	3519	2396	0039699		0079		15318												
		STD	0030	2353	3520	2395	0039758		0119		15320												
180		OBS	0031	2353	35202	2395					15320												
		STD	0050	2040	3488	2458	0033810		0193		15239												
180		OBS	0051	2026	34872	2461					15235												
		STD	0075	1790	3473	2511	0028878		0271		15171												
180		OBS	0076	1784	34729	2512					15169												
		STD	0100	1732	3480	2530	0027106		0341		15159												
180		OBS	0102	1727	34806	2532					15158												
		STD	0125	1657	3471	2541	0026141		0407		15139												
		STD	0150	1553	3458	2555	0024884		0471		15110												
180		OBS	0154	1534	34550	2557					15104												
		STD	0200	1246	3417	2588	0021834		0588		15013												
180		OBS	T0208	1206	34120	2591					15000												
		STD	0250	1086	3412	2614	0019426		0691		14964												
		STD	0300	0962	3410	2633	0017592		0784		14927												
180		OBS	0308	0944	34094	2636					14922												
		STD	0400	0781	3401	2655	0015637		0950		14875												
180		OBS	T0410	0765	34008	2657					14870												
		STD	0500	0614	3401	2677	0013461		1095		14825												
		STD	0600	0493	3406	2696	0011679		1221		14793												
180		OBS	T0612	0482	34067	2698					14791												
		STD	0700	0440	3417	2711	0010328		1331		14789												
		STD	0800	0402	3428	2723	0009158		1429		14792												
180		OBS	0817	0397	34291	2725					14792												
		STD	0900	0381	3436	2732	0008405		1516		14800												
		STD	1000	0363	3442	2738	0007831		1598		14810												
180		OBS	T1030	0357	34439	2741					14813												
		STD	1100	0344	3448	2745	0007242		1673		14820												
		STD	1200	0325	3452	2750	0006797		1743		14829												
		STD	1300	0306	3455	2754	0006421		1809		14838												
		STD	1400	0287	3457	2758	0006114		1872		14847												
		STD	1500	0268	3457	2759	0005949		1932		14856												
180		OBS	T1519	0264	34573	2760					14857												

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDECT	MARSDEN SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311	178	RT	30000N	140000W		123	00	10	29	040	1967	N10	014	4206	17	33	3	3		X2	6	8	0014			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	OIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								10	S16	230	239	211	7	14												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C									
		STD	0000	2356	3526	2399	0039309	0000	15317																	
040		OBS	0000	2356	35260	2399			15317																	
040		OBS	0009	2358	35261	2398			15319																	
		STD	0010	2358	3526	2398	0039386	0039	15319																	
		STD	0020	2357	3527	2399	0039345	0079	15320																	
		STD	0030	2356	3528	2400	0039303	0118	15322																	
040		OBS	0033	2356	35280	2400			15322																	
		STD	0050	2051	3488	2455	0034090	0191	15242																	
040		OBS	0051	2037	34867	2458			15238																	
		STD	0075	1818	3467	2499	0029972	0272	15178																	
040		OBS	0079	1794	34658	2504			15172																	
		STD	0100	1739	3467	2518	0028248	0344	15159																	
040		OBS	0103	1728	34666	2521			15157																	
		STD	0125	1595	3447	2537	0026519	0413	15118																	
		STD	0150	1455	3429	2554	0024938	0477	15075																	
040		OBS	0154	1433	34267	2557			15069																	
		STD	0200	1203	3404	2586	0021989	0594	14996																	
040		OBS	T0205	1183	34023	2588			14990																	
		STD	0250	1085	3406	2609	0019828	0699	14963																	
		STD	0300	0980	3411	2631	0017828	0793	14934																	
040		OBS	0308	0964	34115	2634			14930																	
		STD	0400	0783	3402	2655	0015593	0960	14875																	
040		OBS	T0407	0771	34011	2656			14872																	
		STD	0500	0616	3403	2679	0013316	1105	14826																	
		STD	0600	0495	3406	2696	0011725	1230	14794																	
040		OBS	T0610	0485	34059	2697			14792																	
		STD	0700	0436	3418	2712	0010207	1340	14788																	
		STD	0800	0393	3429	2725	0008980	1436	14788																	
040		OBS	0810	0389	34295	2726			14788																	
		STD	0900	0371	3436	2733	0008289	1522	14796																	
		STD	1000	0352	3443	2740	0007630	1601	14806																	
047		OBS	T1093	0335	34477	2746			14815																	
		STD	1100	0334	3448	2746	0007126	1675	14816																	
		STD	1200	0316	3452	2751	0006692	1744	14825																	
		STD	1300	0298	3456	2756	0006253	1809	14835																	
		STD	1400	0281	3458	2759	0005970	1870	14845																	
		STD	1500	0265	3459	2761	0005767	1929	14855																	
047		OBS	T1665	0239	34591	2763			14871																	

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR.1/10	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
						123	00	10	30	036	1967												
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
				14	S17	196	239	206	7	14													
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C						
		STD	0000	2352	3527	2400	0039161	0000	15316														
036		OBS	0000	2352	35265	2400			15316														
		STD	0010	2353	3527	2400	0039220	0039	15318														
036		OBS	0010	2353	35266	2400			15318														
		STD	0020	2353	3527	2400	0039241	0078	15319														
		STD	0030	2352	3527	2401	0039258	0118	15321														
036		OBS	0033	2352	35268	2401			15321														
		STD	0050	2191	3504	2429	0036585	0194	15281														
036		OBS	0052	2170	35013	2433			15275														
		STD	0075	1871	3483	2498	0030075	0277	15196														
036		OBS	0080	1823	34796	2508			15182														
		STD	0100	1696	3464	2527	0027449	0349	15146														
036		OBS	0103	1678	34618	2529			15141														
		STD	0125	1556	3443	2543	0025968	0416	15105														
		STD	0150	1430	3426	2557	0024646	0479	15067														
036		OBS	0155	1406	34233	2560			15060														
		STD	0200	1215	3404	2584	0022210	0596	15000														
036		OBS	T0207	1189	34020	2587			14992														
		STD	0250	1072	3405	2611	0019699	0701	14959														
		STD	0300	0952	3406	2632	0017725	0794	14923														
036		OBS	0309	0932	34062	2635			14917														
		STD	0400	0769	3401	2656	0015462	0960	14870														
036		OBS	T0415	0744	34003	2659			14863														
		STD	0500	0604	3402	2680	0013255	1104	14822														
		STD	0600	0485	3407	2698	0011508	1228	14790														
036		OBS	T0621	0466	34080	2701			14786														
		STD	0700	0433	3417	2711	0010246	1336	14787														
		STD	0800	0400	3427	2723	0009209	1434	14791														
036		OBS	0820	0394	34294	2725			14792														
		STD	0900	0379	3437	2733	0008308	1521	14800														
		STD	1000	0361	3445	2741	0007586	1601	14810														
036		OBS	T1011	0359	34454	2742			14811														
		STD	1100	0342	3447	2745	0007263	1675	14819														
		STD	1200	0323	3450	2748	0006943	1746	14828														
		STD	1300	0304	3452	2752	0006625	1814	14837														
		STD	1400	0285	3454	2755	0006303	1878	14846														
		STD	1500	0265	3456	2759	0005958	1940	14854														
036		OBS	T1549	0255	34575	2761			14858														

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TD BDTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER									
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT							
31	1178	RT	30050N	140030W		123	00	10	30	182	1967	N10	016	4389	15	14	3	3		X2	8	7	0016							
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																		
								15	S19		192	239	233	7	14															
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - \sigma_l/l$	TOTAL-P $\mu g - \sigma_l/l$	NO ₂ -N $\mu g - \sigma_l/l$	NO ₃ -N $\mu g - \sigma_l/l$	Si D ₄ -Si $\mu g - \sigma_l/l$	pH	S CC													
		STD	0000	2340	3528	2405	0038733	0000	15313																					
182		OBS	0000	2340	35278	2405			15313																					
182		OBS	0009	2346	35281	2403			15316																					
		STD	0010	2346	3528	2403	0038917	0039	15316																					
		STD	0020	2347	3528	2403	0038970	0078	15318																					
		STD	0030	2347	3528	2403	0039022	0117	15320																					
182		OBS	0031	2347	35281	2403			15320																					
182		OBS	0049	2067	34907	2453			15246																					
		STD	0050	2054	3490	2456	0034022	0190	15243																					
		STD	0075	1816	3470	2502	0029707	0269	15178																					
182		OBS	0076	1810	34692	2503			15177																					
182		OBS	0098	1747	34683	2518			15162																					
		STD	0100	1741	3468	2519	0028185	0342	15160																					
		STD	0125	1648	3456	2532	0027031	0411	15135																					
182		OBS	0147	1543	34436	2546			15105																					
		STD	0150	1521	3441	2549	0025441	0476	15098																					
182		OBS	T0194	1249	34088	2581			15012																					
		STD	0200	1232	3409	2584	0022158	0595	15007																					
		STD	0250	1099	3411	2610	0019733	0700	14969																					
182		OBS	0293	0993	34125	2630			14938																					
		STD	0300	0977	3411	2632	0017764	0794	14933																					
182		OBS	T0392	0781	34020	2655			14873																					
		STD	0400	0764	3402	2658	0015308	0959	14868																					
		STD	0500	0588	3404	2683	0012929	1100	14815																					
182		OBS	T0569	0501	34046	2694			14791																					
		STD	0600	0484	3408	2699	0011422	1222	14790																					
		STD	0700	0437	3418	2712	0010219	1330	14788																					
182		OBS	0780	0407	34261	2721			14790																					
		STD	0800	0403	3428	2723	0009169	1427	14792																					
		STD	0900	0381	3438	2733	0008257	1514	14801																					
182		OBS	T0970	0366	34436	2739			14807																					
		STD	1000	0360	3444	2741	0007619	1594	14809																					
		STD	1100	0339	3447	2745	0007265	1668	14818																					
		STD	1200	0320	3449	2748	0006930	1739	14827																					
		STD	1300	0301	3452	2752	0006590	1807	14835																					
		STD	1400	0282	3455	2756	0006239	1871	14844																					
		STD	1500	0265	3457	2760	0005914	1932	14854																					
182		OBS	T1504	0264	34571	2760			14855																					

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1178	RT	3006 N	14001 W		123	00	10	31	183	1967	N10	017	4663	06	14	3	2		X1	6	5	0017
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								15	S15	179		239	222	7	11								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	Σ °C						
		STD	0000	2338	3523	2402	0039024	0000	15312														
183		OBS	0000	2338	35230	2402			15312														
183		OBS	0009	2339	35235	2402			15314														
		STD	0010	2339	3524	2402	0039054	0039	15314														
		STD	0020	2340	3523	2402	0039121	0078	15315														
		STD	0030	2340	3523	2401	0039185	0117	15317														
183		OBS	0032	2340	35231	2401			15318														
		STD	0050	2331	3523	2404	0039022	0195	15318														
183		OBS	0051	2324	35220	2405			15317														
		STD	0075	1915	3477	2483	0031577	0284	15207														
183		OBS	0078	1881	34740	2489			15198														
		STD	0100	1765	3469	2514	0026667	0359	15167														
183		OBS	0102	1754	34679	2516			15164														
		STD	0125	1623	3452	2534	0026769	0428	15127														
		STD	0150	1487	3435	2552	0025164	0493	15086														
183		OBS	0152	1476	34339	2553			15083														
		STD	0200	1229	3406	2582	0022323	0612	15006														
183		OBS	T0204	1212	34047	2585			15000														
		STD	0250	1086	3407	2610	0019772	0717	14964														
		STD	0300	0972	3410	2632	0017741	0811	14931														
183		OBS	0305	0962	34105	2634			14928														
187		OBS	T0364	0863	34049	2645			14900														
		STD	0400	0802	3404	2654	0015726	0978	14883														
		STD	0500	0632	3401	2675	0013669	1125	14833														
192		OBS	T0552	0542	34000	2686			14805														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1178	RT	3002 N	14000 W		123	00	11	01	195	1967	N10	018	4619	17	18	3	3		X1	8	2	0018
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								17	S14	181	258	231	7	14									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	Σ °C						
		STD	0000	2338	3524	2403	0038945	0000	15312														
195		OBS	0000	2338	35241	2403			15312														
		STD	0010	2338	3524	2403	0038969	0039	15314														
195		OBS	0010	2338	35243	2403			15314														
		STD	0020	2337	3524	2403	0038988	0078	15315														
		STD	0030	2336	3524	2403	0039001	0117	15316														
195		OBS	0035	2335	35239	2403			15317														
		STD	0050	2214	3511	2428	0036694	0193	15287														
195		OBS	0055	2167	35056	2437			15275														
		STD	0075	1899	3477	2487	0031187	0277	15203														
195		OBS	0085	1815	34700	2502			15180														
		STD	0100	1780	3471	2511	0028907	0353	15172														
195		OBS	0110	1748	34709	2519			15164														
		STD	0125	1668	3458	2529	0027332	0423	15141														
		STD	0150	1532	3440	2546	0025747	0489	15101														
195		OBS	0165	1448	34300	2556			15076														
		STD	0200	1228	3410	2586	0022011	0609	15006														
195		OBS	0220	1128	34019	2598			14973														
		STD	0250	1072	3405	2611	0019699	0713	14959														
		STD	0300	0977	3408	2629	0017985	0807	14933														
195		OBS	0330	0919	34083	2639			14916														
		STD	0400	0772	3402	2657	0015432	0974	14871														
195		OBS	0440	0700	33996	2665			14849														
		STD	0500	0619	3401	2677	0013526	1119	14827														
		STD	0600	0509	3406	2694	0011873	1246	14800														
195		OBS	T0666	0455	34107	2704			14789														
		STD	0700	0440	3415	2709	0010477	1358	14789														
		STD	0800	0401	3427	2723	0009220	1456	14791														
195		OBS	0880	0376	34352	2732			14795														
		STD	0900	0372	3437	2734	0008227	1543	14797														
		STD	1000	0351	3444	2741	0007544	1622	14806														
195		OBS	T1089	0334	34491	2747			14814														
		STD	1100	0332	3449	2747	0007014	1695	14815														
		STD	1200	0313	3451	2750	0006760	1764	14824														
		STD	1300	0295	3452	2753	0006513	1830	14833														
		STD	1400	0278	3453	2755	0006280	1894	14843														
		STD	1500	0261	3455	2758	0006036	1956	14852														
195		OBS	T1654	0237	34568	2762			14868														

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TABLE VI.—Continued

REFERENCE		SHIP		LATITUDE	LONGITUDE	DRAFT METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES		NOOC STATION NUMBER				
CTRY CODE	ID. NO.	CODE	"	" 1/10	" 1/10		10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYP	AMT					
31	1178	RT	30070N	139400W		122	09	11	03	082	1967	N10	020	4480	05	31	3	5		X3	6	8		0020				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS COD	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB																
								22	515	165	228	222	7	11														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	$\Sigma \Delta D$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	Si O ₂ -Si µg - at/l	pH	S °C											
		STD	0000	2333	3525	2405	0038726	0000	15311																			
082		OBS	0000	2333	35252	2405			15311																			
082		OBS	0008	2333	35248	2405			15312																			
		STD	0010	2333	3525	2405	0038782	0039	15312																			
		STD	0020	2334	3525	2405	0038835	0078	15314																			
082		OBS	0028	2334	35254	2405			15316																			
		STD	0030	2334	3525	2405	0038847	0116	15316																			
082		OBS	0045	2331	35251	2405			15318																			
		STD	0050	2278	3516	2414	0038067	0193	15304																			
082		OBS	0069	2014	34838	2462			15234																			
		STD	0075	1902	3474	2484	0031478	0280	15203																			
095		OBS	0078	1853	34701	2493			15189																			
		STD	0100	1751	3467	2516	0028488	0355	15163																			
095		OBS	0117	1659	34586	2531			15137																			
		STD	0125	1602	3450	2538	0026454	0424	15120																			
		STD	0150	1442	3428	2556	0024745	0488	15071																			
095		OBS	T0156	1407	34232	2560			15060																			
		STD	0200	1218	3411	2588	0021752	0604	15002																			
095		OBS	0244	1071	34042	2610			14957																			
		STD	0250	1059	3404	2612	0019520	0707	14954																			
		STD	0300	0964	3406	2630	0017949	0801	14928																			
095		OBS	T0333	0903	34065	2640			14911																			
		STD	0400	0781	3406	2658	0015268	0967	14875																			
		STD	0500	0608	3400	2677	0013456	1111	14823																			
75		OBS	T0504	0601	33998	2678			14821																			

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TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO DAY HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	1178	RT	3000 N	14000 W	123	00	11	04 146	1967	N10	021	4297	15	30	3	4		X1	4	6		0021	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								19	506	132	220	196	7	14									
MESSINGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t \times 10^3$	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC						
		STD	0000	2331	3523	2404	0038815	0000	15310														
	146	OBS	0000	2331	35232	2404			15310														
		STD	0010	2324	3524	2406	0038617	0039	15310														
	146	OBS	0010	2324	35238	2406			15310														
		STD	0020	2326	3524	2406	0038704	0077	15312														
		STD	0030	2327	3524	2405	0038798	0116	15314														
	146	OBS	0030	2327	35235	2405			15314														
		STD	0050	2319	3523	2407	0038711	0194	15315														
	146	OBS	0050	2319	35227	2407			15315														
		STD	0075	1849	3469	2493	0030549	0280	15188														
	146	OBS	0075	1849	34692	2493			15188														
		STD	0100	1764	3470	2515	0028557	0354	15167														
	146	OBS	0100	1764	34702	2515			15167														
		STD	0125	1667	3457	2528	0027383	0424	15141														
		STD	0150	1551	3443	2544	0025934	0491	15107														
	146	OBS	0152	1541	34417	2545			15105														
		STD	0200	1256	3408	2579	0022682	0012	15015														
	146	OBS	0205	1231	34059	2582			15007														
		STD	0250	1091	3408	2609	0019836	0718	14966														
		STD	0300	0957	3409	2634	0017555	0012	14926														
	146	OBS	0305	0945	34096	2636			14922														
		STD	0400	0763	3401	2657	0015375	0977	14868														
	146	OBS	0405	0754	34005	2658			14865														
		STD	0500	0601	3401	2679	0013290	1120	14820														
		STD	0600	0485	3406	2697	0011582	1244	14790														
	146	OBS	0610	0476	34063	2698			14788														
		STD	0700	0434	3417	2711	0010258	1354	14787														
		STD	0800	0397	3427	2723	0009174	1451	14789														
	146	OBS	0810	0394	34279	2724			14790														
		STD	0900	0374	3437	2733	0008250	1538	14798														
		STD	1000	0353	3444	2741	0007567	1617	14806														
	146	OBS	T1009	0351	34450	2742			14807														
		STD	1100	0333	3447	2745	0007188	1691	14815														
		STD	1200	0314	3449	2749	0006868	1761	14824														
		STD	1300	0296	3452	2752	0006562	1828	14833														
		STD	1400	0280	3454	2756	0006274	1892	14844														
		STD	1500	0264	3456	2759	0005975	1954	14854														
	146	OBS	T1529	0260	34566	2760			14857														

TABLE VII. Observed and interpolated oceanographic data for stations taken by USCGC KLAMATH at Ocean Station NOVEMBER, 26 November-17 December 1967, prepared from NODC Listing No. 31-1185 KL.

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE MOCT	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	185	KL	3000 N	14000 W	123	00	11	29	189	1967	N11	001	4390	19	04	2	2				6	8	0001	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
				03	S12	288	189	172	7	14														
MESSENGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C							
		STD	0000	2046	3512	2475	0032066	0000	15235															
189		OBS	0000	2046	35117	2475			15235															
		STD	0010	2047	3513	2475	0032057	0032	15237															
189		OBS	0014	2047	35130	2476			15238															
		STD	0020	2047	3513	2476	0032059	0064	15239															
		STD	0030	2046	3513	2476	0032068	0096	15240															
189		OBS	0038	2046	35134	2476			15242															
		STD	0050	2045	3513	2476	0032128	0160	15243															
189		OBS	0063	2044	35126	2476			15245															
		STD	0075	1905	3497	2500	0029884	0238	15207															
189		OBS	0096	1729	34764	2528			15157															
		STD	0100	1717	3475	2530	0027126	0309	15154															
		STD	0125	1628	3462	2541	0026137	0376	15130															
189		OBS	0125	1628	34622	2541			15130															
		STD	0150	1497	3441	2554	0024935	0440	15090															
189		OBS	0189	1313	34180	2575			15034															
		STD	0200	1265	3416	2583	0022266	0558	15019															
		STD	0250	1077	3409	2613	0019491	0662	14961															
189		OBS	T0251	1074	34086	2613			14960															
		STD	0300	0963	3406	2630	0017903	0755	14927															
189		OBS	0378	0805	34030	2653			14880															
		STD	0400	0763	3401	2657	0015375	0922	14868															
		STD	0500	0605	3399	2677	0013491	1066	14822															
189		OBS	T0508	0594	33986	2678			14818															
		STD	0600	0519	3408	2695	0011848	1193	14804															
		STD	0700	0453	3417	2709	0010482	1305	14795															
189		OBS	0763	0420	34230	2718			14792															
		STD	0800	0409	3427	2722	0009313	1403	14794															
		STD	0900	0380	3435	2731	0008467	1492	14800															
		STD	1000	0355	3442	2739	0007738	1573	14807															
189		OBS	1020	0350	34430	2741			14808															
		STD	1100	0333	3446	2745	0007262	1648	14815															
		STD	1200	0313	3449	2749	0006878	1719	14823															
189		OBS	1273	0299	34517	2752			14830															
		STD	1300	0294	3452	2753	0006502	1786	14833															
		STD	1400	0277	3455	2757	0006144	1849	14842															
		STD	1500	0261	3457	2760	0005867	1909	14853															
		STD	1750	0229	3460	2765	0005397	2050	14881															
189		OBS	T1919	0212	34604	2767			14903															

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DMT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	OAT	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	1185	KL	3003 N	14004 W		123	00	11	30	191	1967	N11	002	40	44	18	03	3	3		6	7	0002	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								05	S20	257	183	178	7	14										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M, $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C							
		STD	0000	2026	3510	2478	0031720	0000	15229															
191		OBS	0000	2026	35095	2478			15229															
		STD	0010	2027	3510	2478	0031770	0032	15232															
191		OBS	0014	2028	35099	2478			15232															
		STD	0020	2028	3510	2478	0031815	0064	15233															
		STD	0030	2027	3510	2478	0031860	0095	15235															
191		OBS	0038	2027	35093	2478			15236															
		STD	0050	2026	3509	2478	0031925	0159	15238															
191		OBS	0060	2025	35090	2478			15239															
		STD	0075	1850	3483	2504	0029571	0236	15190															
191		OBS	0092	1718	34649	2522			15152															
		STD	0100	1701	3464	2526	0027540	0307	15148															
191		OBS	0119	1651	34629	2536			15136															
		STD	0125	1628	3459	2539	0026370	0375	15129															
		STD	0150	1528	3445	2551	0025298	0439	15101															
191		OBS	0179	1408	34297	2565			15065															
		STD	0200	1305	3419	2578	0022811	0960	15033															
191		OBS	T0237	1150	34054	2597			14984															
		STD	0250	1117	3405	2603	0020454	0668	14975															
		STD	0300	0995	3405	2624	0018488	0765	14939															
191		OBS	0351	0883	34051	2642			14906															
		STD	0400	0785	3401	2654	0015696	0936	14876															
191		OBS	T0469	0667	33978	2668			14841															
		STD	0500	0626	3400	2675	0013693	1083	14830															
		STD	0600	0514	3409	2696	0011712	1210	14802															
191		OBS	T0697	0436	34166	2711			14787															
		STD	0700	0435	3417	2711	0010270	1320	14787															
		STD	0800	0406	3426	2721	0009353	1418	14793															
		STD	0900	0380	3434	2730	0008541	1508	14800															
191		OBS	0944	0369	34373	2734			14803															
		STD	1000	0357	3440	2737	0007909	1590	14808															
		STD	1100	0335	3445	2744	0007359	1666	14816															
191		OBS	T1176	0320	34486	2748			14822															
		STD	1200	0315	3449	2749	0006901	1737	14824															
		STD	1300	0297	3451	2751	0006647	1805	14834															
		STD	1400	0279	3452	2754	0006388	1870	14843															
		STD	1500	0263	3454	2757	0006147	1933	14853															
		STD	1750	0229	3457	2763	0005587	2080	14881															
191		OBS	T1805	0222	34582	2764			14887															

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SWIFT INDICATOR	MARS SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MD	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.					TYPE	AMT		
																HGT	PER	SEA						
311	185	KL	30051N	139590W		122	09	12	01	188	1967	N11	003	4846	15	01	2	2			6	6	0003	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
								00	500		240	194					183	7	14					
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	Si D ₄ -Si µg - at/l	pH	S C C					
		STD	0000	2064	3519	2476		0031985		0000	15241													
188		OBS	0000	2064	35192	2476					15241													
		STD	0010	2065	3518	2475		0032119		0032	15243													
188		OBS	0010	2065	35182	2475					15243													
		STD	0020	2066	3519	2475		0032123		0064	15245													
		STD	0030	2067	3520	2476		0032091		0096	15247													
188		OBS	0030	2067	35203	2476					15247													
		STD	0050	2067	3521	2476		0032141		0161	15250													
188		OBS	0051	2067	35206	2476					15250													
		STD	0075	1826	3474	2503		0029653		0238	15182													
188		OBS	0076	1820	34734	2504					15180													
		STD	0100	1789	3489	2523		0027796		0310	15177													
188		OBS	0102	1784	34900	2525					15176													
		STD	0125	1690	3472	2534		0026810		0378	15150													
		STD	0150	1580	3454	2546		0025758		0444	15118													
188		OBS	0154	1561	34510	2548					15112													
		STD	0200	1324	3419	2574		0023179		0566	15039													
188		OBS	T0207	1293	34151	2577					15030													
		STD	0250	1149	3414	2604		0020392		0675	14987													
		STD	0300	1005	3411	2627		0018227		0771	14943													
188		OBS	0309	0982	34106	2630					14936													
		STD	0400	0795	3401	2653		0015843		0942	14880													
188		OBS	T0410	0776	33999	2654					14874													
		STD	0500	0624	3401	2676		0013593		1089	14829													
		STD	0600	0501	3406	2695		0011776		1216	14797													
188		OBS	0615	0487	34069	2697					14794													
		STD	0700	0443	3416	2710		0010438		1327	14791													
		STD	0800	0404	3425	2721		0009403		1426	14792													
188		OBS	0817	0398	34268	2723					14793													
		STD	0900	0383	3434	2730		0008576		1516	14801													
		STD	1000	0365	3442	2738		0007855		1598	14811													
188		OBS	T1031	0359	34436	2740					14814													
		STD	1100	0346	3445	2743		0007458		1675	14820													
		STD	1200	0327	3448	2747		0007108		1747	14829													
		STD	1300	0307	3451	2751		0006749		1817	14838													
		STD	1400	0286	3453	2755		0006367		1882	14846													
		STD	1500	0265	3456	2759		0005987		1944	14854													
188		OBS	T1525	0260	34567	2760					14856													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	OBS. NO.	MARSEEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
31	185	KL	29560N	140030W		087	90	12	02	195	1967	N11	004	4618	16	34	3	2		6	8	0004
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								34	S18	210	194	178	7	14								
MESSENGER TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C				
		STD	0000	2037	3512	2477	0031818		0000	15233												
195		OBS	0000	2037	35120	2477				15233												
		STD	0010	2038	3511	2476	0031946		0032	15234												
195		OBS	0012	2038	35108	2476				15235												
		STD	0020	2038	3511	2476	0032012		0064	15236												
		STD	0030	2039	3511	2476	0032051		0096	15238												
195		OBS	0034	2039	35109	2476				15239												
		STD	0050	2040	3512	2477	0032083		0160	15242												
195		OBS	0055	2040	35121	2477				15243												
		STD	0075	1843	3482	2505	0029477		0237	15187												
195		OBS	0084	1779	34740	2514				15169												
		STD	0100	1720	3471	2526	0027485		0308	15154												
195		OBS	0110	1682	34685	2533				15144												
		STD	0125	1629	3459	2538	0026392		0376	15129												
		STD	0150	1529	3444	2550	0025392		0440	15101												
195		OBS	0165	1462	34350	2557				15081												
		STD	0200	1259	3413	2582	0022372		0560	15017												
195		OBS	T0220	1167	34047	2593				14987												
		STD	0250	1109	3410	2608	0019975		0666	14972												
		STD	0300	1005	3414	2629	0018006		0760	14944												
195		OBS	0319	0963	34142	2636				14932												
		STD	0400	0766	3401	2657	0015418		0928	14869												
195		OBS	T0414	0737	34000	2660				14860												
		STD	0500	0602	3403	2681	0013155		1070	14821												
		STD	0600	0489	3408	2698	0011482		1194	14792												
195		OBS	T0617	0474	34091	2701				14789												
		STD	0700	0444	3415	2709	0010524		1304	14791												
		STD	0800	0411	3423	2716	0009633		1404	14795												
195		OBS	0819	0405	34249	2721				14796												
		STD	0900	0381	3433	2729	0008627		1496	14800												
		STD	1000	0353	3442	2739	0007715		1577	14806												
195		OBS	T1020	0348	34437	2741				14808												
		STD	1100	0328	3446	2745	0007227		1652	14813												
		STD	1200	0307	3448	2749	0006861		1723	14821												
		STD	1300	0287	3451	2753	0006509		1789	14829												
		STD	1400	0271	3453	2756	0006199		1853	14840												
		STD	1500	0257	3456	2759	0005901		1914	14851												
195		OBS	T1596	0247	34583	2762				14863												

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	OBS. INDEX	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	1185	KL	30032N	140032W		123	00	12	04	190	1967	N11	005	4006	16	34	3	4			9	6	0005	
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
							28	S08	234	178	156	7	14											
MESSNGR TIME HR 1/10	CST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CO ₂						
		STD	0000	2033	3515	2481	0031470		0000	15232														
190		OBS	0000	2033	35154	2481				15232														
190		OBS	0009	2036	35162	2481				15234														
		STD	0010	2036	3516	2481	0031524		0031	15235														
		STD	0020	2036	3516	2481	0031579		0063	15236														
		STD	0030	2035	3516	2481	0031624		0095	15238														
190		OBS	0033	2035	35154	2481				15238														
		STD	0050	2034	3516	2481	0031648		0158	15241														
190		OBS	0052	2034	35159	2481				15241														
		STD	0075	1850	3479	2501	0029861		0235	15189														
190		OBS	0076	1843	34775	2501				15187														
		STD	0100	1724	3468	2523	0027795		0307	15155														
190		OBS	0104	1706	34658	2526				15150														
		STD	0125	1627	3457	2537	0026493		0375	15129														
		STD	0150	1522	3445	2552	0025170		0439	15099														
190		OBS	0151	1518	34442	2552				15097														
		STD	0200	1272	3415	2581	0022472		0558	15021														
190		OBS	T0209	1235	34113	2585				15010														
		STD	0250	1125	3411	2606	0020162		0665	14978														
		STD	0300	1002	3411	2628	0018162		0761	14942														
190		OBS	0312	0974	34112	2632				14934														
		STD	0400	0793	3402	2654	0015740		0930	14879														
190		OBS	T0414	0767	34010	2657				14871														
		STD	0500	0629	3402	2676	0013585		1077	14832														
		STD	0600	0508	3406	2694	0011861		1204	14800														
190		OBS	T0625	0485	34080	2699				14794														
		STD	0700	0450	3415	2708	0010595		1316	14793														
		STD	0800	0410	3425	2720	0009473		1417	14795														
190		OBS	0836	0398	34280	2724				14796														
		STD	0900	0382	3434	2730	0008565		1507	14801														
		STD	1000	0358	3442	2739	0007773		1589	14808														
190		OBS	1049	0347	34449	2742				14812														
		STD	1100	0336	3446	2744	0007289		1664	14816														
		STD	1200	0315	3449	2748	0006938		1735	14824														
		STD	1300	0297	3451	2752	0006625		1803	14834														
		STD	1400	0280	3453	2755	0006311		1868	14843														
		STD	1500	0264	3456	2758	0006005		1929	14854														
190		OBS	T1590	0252	34577	2761				14864														

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WAVE NO.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
													DRY BULB											WET BULB
311185	KL	30050N	140050W	123	00	12	06	195	1967	N11	006	4244	39	36	1	4				6	3		0006	
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																		
		36	S05		261	211					172	8	19											
MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SIO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	COND.							
		STD	0000	2036	3515	2480	0031575	0000	15233															
195	OBS	0000	2036	35150	2480				15233															
	STD	0010	2034	3515	2481	0031546	0032		15234															
195	OBS	0010	2034	35152	2481				15234															
	STD	0020	2031	3515	2481	0031520	0063		15235															
	STD	0030	2030	3514	2481	0031574	0095		15236															
195	OBS	0030	2030	35144	2481				15236															
	STD	0050	2032	3515	2481	0031624	0158		15240															
195	OBS	0050	2032	35154	2481				15240															
	STD	0075	2028	3514	2482	0031691	0237		15243															
195	OBS	0075	2028	35143	2482				15243															
	STD	0100	1756	3477	2522	0027877	0311		15166															
195	OBS	0101	1747	34755	2523				15163															
	STD	0125	1645	3461	2536	0026601	0380		15135															
	STD	0150	1539	3447	2550	0025386	0445		15104															
195	OBS	0153	1526	34453	2551				15100															
	STD	0200	1328	3419	2573	0023257	0566		15041															
195	OBS	0207	1300	34163	2576				15032															
	STD	0250	1123	3413	2608	0020002	0674		14978															
	STD	0300	0960	3409	2633	0017633	0768		14927															
195	OBS	0307	0941	34083	2635				14921															
	STD	0400	0781	3401	2654	0015659	0935		14875															
195	OBS	T0408	0768	34000	2656				14871															
	STD	0500	0618	3401	2677	0013513	1081		14827															
	STD	0600	0499	3405	2695	0011825	1407		14796															
195	OBS	T0607	0493	34052	2695				14794															
	STD	0700	0449	3415	2708	0010583	1319		14793															
	STD	0800	0409	3425	2720	0009462	1420		14794															
195	OBS	0810	0406	34256	2721				14795															
	STD	0900	0383	3434	2730	0008576	1510		14801															
	STD	1000	0357	3441	2738	0007836	1592		14808															
195	OBS	T1019	0352	34425	2740				14809															
	STD	1100	0322	3446	2746	0007136	1667		14810															
	STD	1200	0290	3449	2751	0006615	1736		14814															
	STD	1300	0265	3452	2756	0006170	1799		14820															
	STD	1400	0246	3455	2760	0005788	1859		14829															
195	OBS	T1487	0235	34567	2762				14839															
	STD	1500	0235	3457	2762	0005566	1916		14841															
251	OBS	T1734	0229	34598	2765				14879															
	STD	1750	0227	3460	2765	0005373	2053		14881															
	STD	2000	0199	3461	2768	0005072	2183		14911															
251	OBS	2191	0183	34619	2770				14937															
	STD	2500	0168	3462	2771	0004791	2430		14983															
251	OBS	2745	0159	34621	2772				15021															
	STD	3000	0155	3463	2773	0004718	2668		15064															
251	OBS	T3300	0152	34633	2774				15115															
251	OBS	T3891	0150	34665	2776				15218															

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MAGNETIC INCLIN	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	1185	KL	30020N	140000W		123 00	12	07	193	1967	N11	007	4390	16	35	1	4			6	7	0007		
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									05	512	261	211	161	7	14									
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SIO ₄ -Si $\mu g - ml/l$	pH	S C						
		STD	0000	2007	3511	2484	0031169		0000	15224														
193		OBS	0000	2007	35105	2484				15224														
193		OBS	0009	2008	35108	2484				15226														
		STD	0010	2008	3511	2484	0031208		0031	15226														
		STD	0020	2008	3511	2484	0031258		0062	15228														
		STD	0030	2008	3511	2484	0031300		0094	15230														
193		OBS	0034	2008	35104	2484				15230														
		STD	0050	2008	3510	2484	0031400		0156	15233														
193		OBS	0054	2008	35100	2484				15233														
		STD	0075	1880	3486	2498	0030075		0233	15198														
193		OBS	0079	1859	34831	2501				15193														
		STD	0100	1773	3483	2523	0027836		0306	15171														
193		OBS	0108	1738	34803	2529				15162														
		STD	0125	1660	3466	2537	0026571		0374	15140														
		STD	0150	1541	3447	2549	0025429		0439	15105														
193		OBS	0158	1502	34418	2554				15093														
		STD	0200	1269	3416	2582	0022341		0558	15020														
193		OBS	T0221	1175	34078	2594				14991														
		STD	0250	1103	3408	2608	0020002		0664	14970														
		STD	0300	0986	3409	2628	0018066		0759	14936														
193		OBS	0326	0930	34092	2638				14920														
		STD	0400	0785	3402	2655	0015622		0928	14876														
193		OBS	T0449	0702	33996	2665				14852														
		STD	0500	0627	3402	2677	0013558		1073	14831														
		STD	0600	0509	3408	2696	0011725		1200	14800														
193		OBS	T0661	0456	34129	2706				14789														
		STD	0700	0440	3417	2711	0010328		1310	14789														
		STD	0800	0403	3427	2722	0009244		1408	14792														
193		OBS	0875	0381	34332	2730				14796														
		STD	0900	0375	3435	2731	0008432		1496	14798														
		STD	1000	0355	3441	2738	0007835		1578	14807														
		STD	1100	0343	3447	2744	0007326		1653	14819														
193		OBS	T1101	0343	34468	2744				14819														
193		OBS	16500	0248	34568	2761																		

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODD STATION NUMBER					
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER		DIR	HGT	PER		SEA	TYPE		AMT				
31	1185	KL	29100N	140050W		087	90	12	08	222	1967	N11	008	3722	16	32	1	3		6	6	0008				
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. DBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								08	S15	224	200	172	8	14												
MESSAGE TIME HR 1/10	CARD ND.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C									
		STD	0000	2130	3531	2467	0032846	0000	15260																	
222		OBS	0000	2130	35309	2467			15260																	
		STD	0010	2132	3534	2468	0032706	0033	15262																	
222		OBS	0011	2132	35345	2469			15262																	
		STD	0020	2132	3535	2469	0032663	0065	15264																	
		STD	0030	2131	3535	2470	0032665	0098	15265																	
222		OBS	0030	2131	35353	2470			15265																	
		STD	0050	2131	3535	2469	0032760	0164	15269																	
222		OBS	0051	2131	35348	2469			15269																	
		STD	0075	2030	3511	2479	0031980	0244	15243																	
222		OBS	0078	2014	35095	2482			15239																	
		STD	0100	1876	3505	2514	0028685	0320	15204																	
222		OBS	0102	1865	35040	2516			15201																	
		STD	0125	1775	3489	2527	0027529	0391	15177																	
		STD	0150	1676	3474	2539	0026463	0458	15150																	
222		OBS	0150	1676	34735	2539			15150																	
		STD	0200	1478	3445	2561	0024417	0585	15093																	
222		OBS	T0200	1478	34446	2561			15093																	
		STD	0250	1245	3425	2594	0021352	0700	15022																	
222		OBS	0296	1072	34130	2617			14967																	
		STD	0300	1061	3412	2618	0019103	0801	14964																	
		STD	0400	0824	3403	2650	0016144	0977	14891																	
222		OBS	0400	0824	34028	2650			14891																	
		STD	0500	0640	3404	2677	0013562	1126	14836																	
		STD	0600	0512	3406	2694	0011918	1253	14801																	
222		OBS	T0603	0509	34059	2694			14800																	
		STD	0700	0472	3418	2708	0010636	1366	14803																	
		STD	0800	0437	3428	2720	0009570	1467	14806																	
222		OBS	0818	0431	34295	2722			14807																	
		STD	0900	0404	3436	2730	0008675	1558	14810																	
		STD	1000	0374	3442	2737	0007960	1641	14815																	
222		OBS	T1023	0367	34434	2739			14816																	
		STD	1100	0346	3445	2743	0007472	1718	14820																	
		STD	1200	0322	3448	2747	0007086	1791	14827																	
		STD	1300	0301	3450	2751	0006730	1860	14835																	
		STD	1400	0282	3452	2754	0006393	1926	14844																	
		STD	1500	0267	3455	2758	0006099	1988	14855																	
222		OBS	T1629	0252	34579	2761			14871																	

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRI INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311185		KL	29020N	140005W		087	90	12	09	194	1967	N11	009	4207	19	14	1	3		6	3	0009	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB											
								09	509	227	206	194	8	14									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M., X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
		STD	0000	2128	3535	2470	0032519	0000	15260														
194		OBS	0000	2128	35347	2470			15260														
		STD	0010	2127	3535	2470	0032537	0033	15261														
194		OBS	0015	2127	35347	2470			15262														
		STD	0020	2127	3534	2470	0032583	0065	15263														
		STD	0030	2126	3534	2470	0032646	0098	15264														
194		OBS	0039	2126	35334	2470			15265														
		STD	0050	2086	3523	2473	0032457	0163	15255														
194		OBS	0064	2027	35130	2481			15241														
		STD	0075	1962	3507	2493	0030562	0242	15224														
194		OBS	0098	1852	34977	2514			15196														
		STD	0100	1847	3497	2515	0028553	0315	15195														
		STD	0125	1774	3491	2529	0027331	0385	15177														
194		OBS	0128	1764	34907	2531			15174														
		STD	0150	1668	3469	2537	0026610	0453	15147														
194		OBS	0191	1476	34369	2556			15090														
		STD	0200	1421	3432	2564	0024162	0580	15073														
		STD	0250	1161	3411	2599	0020828	0692	14991														
194		OBS	0255	1139	34090	2602			14984														
		STD	0300	1037	3408	2619	0018986	0792	14955														
194		OBS	0384	0859	34060	2647			14902														
		STD	0400	0824	3405	2652	0015959	0966	14892														
		STD	0500	0640	3401	2674	0013828	1115	14836														
194		OBS	T0516	0616	34000	2676			14829														
		STD	0600	0548	3411	2694	0011989	1244	14817														
		STD	0700	0481	3422	2710	0010449	1357	14807														
194		OBS	T0772	0442	34283	2719			14804														
		STD	0800	0434	3430	2722	0009386	1456	14805														
		STD	0900	0406	3437	2730	0008625	1546	14811														
		STD	1000	0379	3442	2737	0008019	1629	14817														
194		OBS	1035	0370	34442	2739			14819														
		STD	1100	0354	3447	2743	0007433	1706	14824														
		STD	1200	0331	3451	2749	0006941	1778	14831														
194		OBS	T1290	0311	34530	2752			14838														
		STD	1300	0309	3453	2752	0006603	1846	14839														
		STD	1400	0289	3453	2754	0006453	1911	14847														
		STD	1500	0271	3452	2755	0006322	1975	14856														
		STD	1750	0233	3452	2758	0006060	2130	14882														
194		OBS	T1946	0211	34510	2759			14906														

TABLE VII.—Continued

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	OBS. INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311185	KL	30010N	140050W	123	00	12	11	202	1967	N11	010	6856	15	14	1	2		18	8	3		0010
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								11	511	244	211	194	8	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	2039	3520	2483	0031325	0000	15234													
	202	OBS	0000	2039	35195	2483			15234													
		STD	0010	2045	3521	2482	0031414	0031	15237													
	202	OBS	0011	2045	35208	2482			15236													
		STD	0020	2043	3521	2482	0031427	0063	15239													
		STD	0030	2041	3520	2483	0031441	0094	15240													
	202	OBS	0030	2041	35201	2483			15240													
	202	OBS	0047	2040	35199	2483			15242													
		STD	0050	2040	3520	2483	0031494	0157	15243													
	202	OBS	0074	2037	35199	2483			15246													
		STD	0075	2021	3518	2486	0031246	0236	15241													
	202	OBS	0096	1749	34785	2525			15163													
		STD	0100	1749	3478	2525	0027643	0309	15164													
		STD	0125	1709	3473	2530	0027168	0378	15155													
		STD	0150	1607	3458	2543	0026056	0444	15127													
	202	OBS	0153	1590	34561	2545			15122													
	202	OBS	0188	1329	34204	2574			15039													
		STD	0200	1281	3419	2582	0022350	0565	15025													
		STD	0250	1103	3415	2613	0019502	0670	14971													
	202	OBS	0280	1012	34121	2627			14943													
		STD	0300	0964	3410	2633	0017625	0763	14928													
	202	OBS	0372	0809	34025	2652			14881													
		STD	0400	0759	3403	2659	0015206	0927	14866													
		STD	0500	0609	3403	2679	0013284	1069	14824													
	202	OBS	T0575	0524	34025	2690			14802													
		STD	0600	0506	3406	2695	0011837	1195	14799													
		STD	0700	0444	3418	2711	0010301	1306	14791													
	202	OBS	0757	0417	34240	2719			14790													
		STD	0800	0406	3427	2722	0009278	1403	14793													
		STD	0900	0380	3435	2731	0008467	1492	14800													
	202	OBS	T0952	0368	34380	2735			14804													
		STD	1000	0357	3441	2738	0007836	1574	14808													
		STD	1100	0335	3446	2744	0007285	1649	14816													
		STD	1200	0316	3450	2749	0006839	1720	14825													
		STD	1300	0297	3454	2754	0006389	1786	14834													
		STD	1400	0281	3456	2757	0006117	1849	14844													
	202	OBS	T1484	0269	34569	2759			14853													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIR DIST	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	1185	KL	30010N	140050W		123	00	12	11	192	1967	N11	011	4755	17	14	2	2		8	5	0011
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								11	S15	220	189	178	8	14								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C					
		STD	0000	2037	3521	2484	0031159	0000	15234													
192		OBS	0000	2037	35211	2484			15234													
		STD	0010	2038	3521	2484	0031200	0031	15236													
192		OBS	0013	2038	35214	2484			15236													
		STD	0020	2038	3521	2484	0031252	0062	15237													
		STD	0030	2039	3521	2484	0031308	0094	15239													
192		OBS	0033	2039	35211	2484			15240													
		STD	0050	2039	3521	2484	0031396	0156	15243													
192		OBS	0053	2039	35204	2483			15243													
		STD	0075	1865	3501	2514	0028625	0231	15196													
192		OBS	0081		34959																	
		STD	0100	1706	3477	2534	0026730	0301	15151													
192		OBS	0105	1679	34722	2537			15143													
		STD	0125	1626	3462	2541	0026107	0367	15129													
		STD	0150	1533	3449	2553	0025112	0431	15103													
192		OBS	0158	1497	34442	2557			15092													
		STD	0200	1235	3416	2589	0021701	0548	15009													
192		OBS	0212	1175	34104	2596			14989													
		STD	0250	1077	3410	2614	0019417	0651	14961													
		STD	0300	0959	3408	2632	0017691	0743	14926													
192		OBS	0320	0915	34073	2639			14913													
		STD	0400	0764	3400	2656	0015463	0909	14868													
192		OBS	0427	0717	33987	2662			14854													
		STD	0500	0588	3402	2682	0013048	1052	14815													
		STD	0600	0460	3408	2701	0011137	1173	14780													
192		OBS	0651	0415	34116	2709			14770													
		STD	0700	0411	3417	2714	0009992	1278	14777													
		STD	0800	0399	3426	2722	0009271	1374	14790													
192		OBS	0874	0388	34318	2728			14799													
		STD	0900	0383	3434	2730	0008607	1464	14801													
		STD	1000	0361	3440	2737	0007953	1547	14809													
		STD	1100	0340	3447	2744	0007301	1623	14818													
192		OBS	T1101	0340	34467	2744			14818													
		STD	1200	0321	3449	2748	0006993	1694	14827													
		STD	1300	0303	3451	2751	0006702	1763	14836													
		STD	1400	0286	3453	2754	0006418	1829	14846													
		STD	1500	0270	3455	2757	0006141	1891	14856													
192		OBS	T1707	0240	34589	2763			14879													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARS SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CITY CODE	IO, NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311	185	KL	29580N	140000W		087	90	12	14	189	1967	N11	012	4572	16	08	1	2			6	8	0012
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
				11	S20	210	200	183	8		14												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	Si C					
		STD	0000	2017	3518	2487	0030863		0000	15228													
189		OBS	0000	2017	35182	2487				15228													
		STD	0010	2018	3518	2487	0030914		0031	15230													
189		OBS	0011	2018	35183	2487				15230													
		STD	0020	2019	3518	2487	0030999		0062	15232													
189		OBS	0028	2020																			
		STD	0030	2020	3518	2487	0031060		0093	15234													
189		OBS	0045	2020	35176	2486				15236													
		STD	0050	2019	3517	2486	0031159		0155	15237													
189		OBS	0068	2016	35160	2486				15239													
		STD	0075	1895	3495	2501	0029785		0231	15204													
189		OBS	0088	1723	34667	2522				15153													
		STD	0100	1710	3466	2525	0027606		0303	15151													
		STD	0125	1649	3465	2539	0026391		0371	15136													
189		OBS	0131	1628	34648	2543				15131													
		STD	0150	1517	3448	2555	0024846		0435	15097													
189		OBS	0178	1371	34277	2571				15052													
		STD	0200	1285	3423	2585	0022134		0552	15027													
		STD	0250	1112	3413	2610	0019807		0657	14974													
189		OBS	0274	1042	34098	2620				14952													
		STD	0300	0985	3407	2627	0018190		0752	14936													
189		OBS	0376	0830	34012	2647				14889													
		STD	0400	0782	3402	2655	0015600		0921	14875													
		STD	0500	0612	3404	2680	0013212		1065	14825													
189		OBS	T0589	0504	34060	2695				14796													
		STD	0600	0498	3407	2696	0011665		1189	14796													
		STD	0700	0447	3418	2711	0010337		1299	14793													
189		OBS	0791	0411	34270	2722				14794													
		STD	0800	0409	3428	2723	0009239		1397	14795													
		STD	0900	0388	3437	2732	0008413		1485	14804													
189		OBS	T0996	0368	34442	2740				14812													
		STD	1000	0367	3444	2740	0007708		1566	14812													
		STD	1100	0347	3447	2744	0007381		1641	14821													
		STD	1200	0327	3449	2747	0007049		1714	14829													
		STD	1300	0307	3451	2751	0006712		1782	14836													
		STD	1400	0288	3454	2755	0006383		1848	14847													
		STD	1500	0270	3456	2758	0006053		1910	14856													
189		OBS	T1558	0259	34572	2760				14862													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. NO.	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1185	KL	30010N	139590W	127	12	15	191	1967	N11	013	4572	14	30	1	2			6	6		0013
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
					07	S15	220	183	155	8	14											
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S °C					
		STD	0000	2008	3517	2489	0030694	0000	15226													
191		OBS	0000	2008	35174	2482			15226													
191		OBS	0007	2013	35203	2490			15228													
		STD	0010	2013	3520	2490	0030667	0031	15229													
		STD	0020	2013	3519	2489	0030775	0061	15230													
191		OBS	0026	2013	35185	2489			15231													
		STD	0030	2012	3519	2489	0030822	0092	15232													
191		OBS	0041	2010	35183	2489			15233													
		STD	0050	2010	3518	2489	0030873	0154	15234													
191		OBS	0060	2009	35174	2489			15236													
		STD	0075	1973	3508	2491	0030763	0231	15227													
191		OBS	0084	1935	35007	2496			15217													
		STD	0100	1801	3484	2517	0028419	0305	15180													
191		OBS	0122	1646	34630	2538			15135													
		STD	0125	1631	3460	2539	0026363	0373	15130													
		STD	0150	1508	3441	2552	0025166	0438	15094													
191		OBS	0163	1448	34329	2559			15076													
		STD	0200	1285	3418	2581	0022500	0557	15026													
		STD	0250	1102	3405	2605	0020197	0664	14969													
191		OBS	0250	1102	34053	2605			14969													
		STD	0300	0968	3406	2629	0017985	0759	14929													
191		OBS	0333	0889	34061	2642			14905													
		STD	0400	0764	3396	2653	0015759	0928	14867													
		STD	0500	0613	3392	2671	0014114	1077	14824													
191		OBS	T0505	0607	33917	2671			14822													
		STD	0600	0512	3405	2693	0011984	1208	14801													
191		OBS	0688	0447	34155	2709			14790													
		STD	0700	0442	3417	2710	0010352	1319	14790													
		STD	0800	0407	3427	2722	0009290	1418	14794													
191		OBS	0874	0384	34338	2730			14797													
		STD	0900	0376	3436	2732	0008347	1506	14798													
		STD	1000	0350	3443	2741	0007607	1586	14805													
		STD	1100	0327	3449	2748	0006971	1658	14813													
		STD	1200	0309	3453	2752	0006537	1726	14822													
		STD	1300	0295	3455	2755	0006292	1790	14833													
191		OBS	T1378	0287	34556	2756			14843													

TABLE VIII. Observed and interpolated oceanographic data for stations taken by USCGC TANEY at Ocean Station NOVEMBER, 7-28 January 1968, prepared from NODC Listing No. 31-1200 RT.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	ID. NO.					10"		1"			MO				DAY		CRUISE NO.	STATION NUMBER		DIR.	HGT		PER	SEA	TYPE
31	1200	RT	3000 N	14001 W	123	00	01	07	009	1968	N12	001	3840	16	13	3	4		X1	6	6		0001		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								10	517	251	167	156	8	14											
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S CC								
		STD	0000	1939	3522	2511	0028666	0000	15207																
	009	OBS	0000	1939	35217	2511			15207																
	009	OBS	0008	1940	35209	2510			15209																
		STD	0010	1940	3521	2510	0028776	0029	15209																
		STD	0020	1940	3521	2510	0028796	0058	15211																
		STD	0030	1940	3522	2510	0028810	0086	15212																
	009	OBS	0032	1940	35216	2510			15213																
		STD	0050	1941	3521	2510	0028919	0144	15216																
	009	OBS	0050	1941	35213	2510			15216																
		STD	0075	1939	3522	2510	0028947	0216	15219																
	009	OBS	0078	1939	35215	2510			15220																
		STD	0100	1941	3521	2510	0029112	0289	15224																
	009	OBS	0101	1941	35209	2509			15224																
		STD	0125	1784	3490	2525	0027667	0360	15180																
		STD	0150	1647	3466	2540	0026358	0427	15140																
	009	OBS	0153	1633	34633	2541			15136																
		STD	0200	1463	3441	2562	0024368	0554	15088																
	009	OBS	T0204	1448	34394	2564			15083																
		STD	0250	1227	3424	2597	0021088	0668	15015																
		STD	0300	1036	3412	2622	0018675	0767	14955																
	009	OBS	0306	1017	34107	2625			14949																
		STD	0400	0821	3403	2650	0016084	0941	14890																
	009	OBS	0409	0804	34026	2652			14885																
		STD	0500	0640	3403	2676	0013658	1090	14836																
		STD	0600	0511	3408	2696	0011750	1217	14801																
	009	OBS	T0615	0496	34089	2698			14797																
		STD	0700	0460	3419	2710	0010417	1328	14798																
		STD	0800	0424	3429	2722	0009341	1426	14801																
	009	OBS	0820	0417	34304	2724			14802																
		STD	0900	0395	3436	2730	0008569	1516	14806																
		STD	1000	0369	3442	2738	0007901	1598	14813																
	009	OBS	T1038	0360	34440	2740			14816																
		STD	1100	0345	3447	2744	0007328	1675	14820																
		STD	1200	0323	3451	2749	0006847	1745	14828																
		STD	1300	0303	3454	2754	0006459	1812	14837																
		STD	1400	0284	3456	2757	0006152	1875	14846																
		STD	1500	0267	3457	2759	0005937	1935	14855																
	009	OBS	T1556	0258	34570	2760			14861																

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT MOON	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER														
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT															
31	1200	RT	3018 N	14017 W		123	00	01	08	198	1968	N12	002	4572	07	15	3	4		X5	5	8	0002														
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																												
						16	S25	152	183	178	7	13																									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C																				
		STD	0000	1899	3506	2509	0028828	0000	15194																												
198		OBS	0000	1899	35060	2509			15194																												
198		OBS	0008	1901	35071	2509			15196																												
		STD	0010	1901	3507	2509	0028838	0029	15196																												
		STD	0020	1899	3507	2510	0028824	0058	15197																												
		STD	0030	1898	3507	2510	0028848	0086	15199																												
198		OBS	0030	1898	35068	2510			15199																												
		STD	0050	1900	3507	2509	0028980	0144	15202																												
198		OBS	0050	1900	35066	2509			15202																												
		STD	0075	1900	3506	2509	0029109	0217	15207																												
198		OBS	0075	1900	35060	2509			15207																												
198		OBS	0098	1890	35034	2509			15207																												
		STD	0100	1875	3501	2511	0028951	0290	15203																												
		STD	0125	1705	3475	2533	0026932	0359	15154																												
198		OBS	0145	1595	34585	2546			15122																												
		STD	0150	1577	3455	2547	0025620	0425	15117																												
198		OBS	T0190	1430	34334	2563			15074																												
		STD	0200	1383	3429	2569	0023613	0548	15060																												
		STD	0250	1178	3414	2598	0020916	0659	14997																												
198		OBS	0280	1081	34080	2611			14967																												
		STD	0300	1040	3408	2619	0019037	0759	14956																												
198		OBS	0355	0924	34067	2637			14922																												
		STD	0400	0806	3402	2652	0015933	0934	14884																												
198		OBS	T0488	0634	33976	2672			14831																												
		STD	0500	0623	3398	2674	0013816	1083	14829																												
		STD	0600	0531	3400	2687	0012613	1215	14808																												
198		OBS	0605	0527	33998	2687			14807																												
198		OBS	T0693	0454	34139	2707			14794																												

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CRUISE CODE	IO. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311	200	RT	3004 N	14011 W		123	00	01	09	199	1968	N12	003	4572	16	15	4	4		X4	6	6	0003			
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE	DRY BULB		WET BULB																		
						07		512		102		189		189		6		14								
MESSENGER TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C C									
		STD	0000	1976	3526	2504	0029284	0000	15218																	
199		OBS	0000	1976	35258	2504			15218																	
		STD	0010	1976	3527	2505	0029247	0029	15219																	
199		OBS	0010	1976	35268	2505			15219																	
		STD	0020	1974	3527	2505	0029242	0059	15220																	
		STD	0030	1972	3527	2506	0029232	0088	15222																	
199		OBS	0033	1971	35264	2506			15222																	
		STD	0050	1971	3526	2506	0029293	0146	15225																	
199		OBS	0052	1971	35264	2506			15225																	
		STD	0075	1943	3519	2507	0029222	0219	15220																	
199		OBS	0081	1937	35176	2508			15219																	
		STD	0100	1928	3515	2508	0029229	0292	15220																	
199		OBS	0104	1920	35129	2509			15218																	
		STD	0125	1797	3490	2522	0027972	0364	15183																	
		STD	0150	1662	3467	2537	0026621	0432	15145																	
199		OBS	0156	1632	34616	2540			15136																	
		STD	0200	1434	3431	2560	0024500	0560	15077																	
199		OBS	T0207	1404	34278	2564			15068																	
		STD	0250	1225	3418	2592	0021490	0675	15014																	
		STD	0300	1056	3410	2617	0019164	0777	14962																	
199		OBS	0310	1028	34092	2622			14953																	
		STD	0400	0859	3404	2645	0016590	0955	14905																	
199		OBS	0413	0836	34033	2648			14898																	
		STD	0500	0663	3405	2674	0013829	1107	14845																	
		STD	0600	0518	3407	2694	0011940	1236	14804																	
199		OBS	T0615	0501	34069	2696			14799																	
		STD	0700	0455	3418	2710	0010432	1348	14796																	
		STD	0800	0412	3428	2722	0009274	1447	14796																	
199		OBS	0824	0404	34303	2725			14797																	
		STD	0900	0388	3435	2730	0008561	1536	14803																	
		STD	1000	0366	3441	2737	0007940	1618	14811																	
199		OBS	T1030	0360	34431	2740			14814																	
		STD	1100	0345	3447	2744	0007328	1695	14820																	
		STD	1200	0325	3451	2749	0006870	1766	14829																	
		STD	1300	0305	3454	2754	0006482	1832	14837																	
		STD	1400	0285	3456	2757	0006164	1896	14846																	
		STD	1500	0266	3457	2759	0005925	1956	14855																	
199		OBS	T1565	0254	34575	2761			14861																	

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG. INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
ENTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1200	RT	3000 N	14004 W		123	00	01	10	198	1968	N12	004	4572	10	11	4	3		45	6	8	0004
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
					09	S20	135	183	183	6	13												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C						
		STD	0000	1924	3518	2512	0028544	0000	15202														
198		OBS	0000	1924	35183	2512			15202														
198		OBS	0000	1928	35181	2511			15205														
		STD	0010	1928	3518	2511	0028689	0029	15205														
		STD	0020	1927	3518	2511	0028689	0057	15206														
		STD	0030	1925	3518	2511	0028690	0086	15208														
198		OBS	0031	1925	35181	2511			15208														
198		OBS	0040	1925	35185	2512			15211														
		STD	0050	1925	3519	2512	0028728	0143	15211														
198		OBS	0074	1926	35182	2511			15215														
		STD	0075	1925	3518	2511	0028856	0215	15215														
198		OBS	0096	1908	35138	2512			15213														
		STD	0100	1877	3508	2516	0028492	0287	15204														
		STD	0125	1706	3476	2533	0026882	0356	15155														
198		OBS	0143	1605	34584	2544			15125														
		STD	0150	1580	3455	2547	0025685	0422	15118														
198		OBS	T0193	1419	34358	2567			15072														
		STD	0200	1384	3433	2572	0023341	0545	15061														
		STD	0250	1167	3417	2603	0020496	0654	14994														
198		OBS	0284	1055	34098	2617			14959														
		STD	0300	1029	3409	2621	0018777	0752	14952														
198		OBS	T0378	0894	34058	2641			14915														
		STD	0400	0837	3405	2650	0016156	0927	14897														
		STD	0500	0628	3403	2677	0013512	1075	14831														
198		OBS	T0558	0545	34013	2686			14807														
		STD	0600	0520	3405	2692	0012083	1203	14804														
		STD	0700	0468	3413	2704	0010958	1319	14801														
203		OBS	0710	0463	34140	2706			14800														
		STD	0800	0425	3422	2716	0009872	1423	14800														
		STD	0900	0392	3433	2728	0008755	1516	14805														
206		OBS	T0997	0369	34432	2739			14813														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10°	1°	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
311200	RT		2948 N	13954 W		086	99	01	11	198	1968	N12	005	4750	12	18	4	4		50	6	6	00051	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								19	520	061	21	20	7	14										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CC						
		STD	0000	1961	3521	2504	0029245		0000	15213														
198		OBS	0000	1961	35212	2504				15213														
198		OBS	0008	1964	35210	2504				15215														
		STD	0010	1963	3521	2504	0029344		0029	15215														
		STD	0020	1956	3520	2505	0029278		0059	15215														
		STD	0030	1947	3518	2506	0029236		0088	15214														
198		OBS	0031	1946	35178	2506				15214														
		STD	0050	1920	3514	2509	0028961		0146	15209														
198		OBS	0050	1920	35136	2509				15209														
		STD	0075	1919	3513	2509	0029044		0219	15213														
198		OBS	0079	1918	35132	2509				15213														
		STD	0100	1910	3511	2510	0029077		0291	15214														
198		OBS	0102	1906	35098	2510				15213														
		STD	0125	1750	3483	2528	0027383		0362	15169														
		STD	0150	1608	3461	2545	0025882		0428	15127														
198		OBS	0150	1608	34607	2545				15127														
		STD	0200	1419	3435	2566	0023902		0553	15073														
198		OBS	T0204	1404	34332	2568				15068														
		STD	0250	1216	3419	2595	0021249		0666	15011														
198		OBS	0290	1084	34111	2613				14970														
		STD	0300	1063	3411	2617	0019211		0767	14964														
198		OBS	T0385	0889	34058	2642				14914														
		STD	0400	0850	3405	2647	0016370		0945	14901														
		STD	0500	0635	3400	2674	0013791		1096	14834														
198		OBS	T0539	0574	33984	2680				14815														
		STD	0600	0519	3405	2692	0012071		1225	14804														
		STD	0700	0453	3416	2709	0010534		1338	14795														
198		OBS	0700	0453	34163	2709				14795														
		STD	0800	0425	3427	2720	0009502		1438	14801														
198		OBS	0865	0407	34324	2726				14805														
		STD	0900	0398	3435	2729	0008678		1529	14807														
		STD	1000	0372	3442	2738	0007937		1612	14814														
		STD	1100	0348	3447	2744	0007363		1689	14821														
		STD	1200	0326	3450	2748	0006956		1760	14829														
198		OBS	T1250	0315	34504	2750				14833														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10°	1°	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
311200	RT		3008 N	139505 W		122	09	01	13	030	1968	N12	006	4755	04	22	2	5		X1	6	4	0006	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								22	524	036	202	188	7	10										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CC						
		STD	0000	1909	3514	2512	0028490		0000	15198														
030		OBS	0000	1909	35140	2512				15198														
		STD	0010	1913	3514	2511	0028627		0029	15201														
030		OBS	0012	1914	35138	2511				15201														
		STD	0020	1913	3514	2511	0028676		0057	15202														
		STD	0030	1912	3514	2511	0028691		0086	15203														
030		OBS	0031	1912	35137	2511				15204														
		STD	0050	1912	3514	2511	0028772		0143	15207														
030		OBS	0051	1912	35135	2511				15207														
		STD	0075	1914	3514	2511	0028878		0215	15211														
030		OBS	0079	1914	35139	2511				15212														
		STD	0100	1912	3515	2513	0028821		0288	15215														
030		OBS	0102	1909	35153	2513				15215														
		STD	0125	1796	3490	2522	0027948		0359	15183														
		STD	0150	1682	3468	2533	0026998		0427	15151														
030		OBS	0152	1673	34660	2534				15148														
		STD	0200	1485	3441	2557	0024826		0557	15095														
030		OBS	T0202	1476	34401	2558				15092														
		STD	0250	1209	3420	2597	0021046		0671	15009														
030		OBS	0285	1062	34103	2616				14961														
		STD	0300	1011	3407	2623	0018622		0771	14945														
030		OBS	T0372	0867	34047	2644				14903														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1200	RT	3013 N	13944 W		122	09	01	14	026	1968	N12	007	4755	10	28	5	4		X1	9	1	0007
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								23	S22	064		206	189	7	14								
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C						
		STD	0000	1910	3513	2512	0028572	0000	15198														
	026	OBS	0000	1910	35132	2512			15198														
		STD	0010	1910	3513	2511	0028629	0029	15200														
	026	OBS	0010	1910	35129	2511			15200														
		STD	0020	1910	3513	2511	0028656	0057	15201														
		STD	0030	1910	3513	2511	0028691	0086	15203														
	026	OBS	0030	1910	35130	2511			15203														
	026	OBS	0045	1909	35133	2512			15205														
		STD	0050	1909	3513	2512	0028716	0143	15206														
	026	OBS	0070	1911	35137	2512			15210														
		STD	0075	1912	3514	2512	0028817	0215	15211														
	026	OBS	0090	1913	35146	2512			15214														
		STD	0100	1864	3503	2515	0028541	0287	15200														
		STD	0125	1740	3477	2526	0027588	0357	15165														
	026	OBS	0140	1665	34636	2534			15143														
		STD	0150	1613	3455	2539	0026406	0425	15128														
	026	OBS	0190	1413	34280	2562			15068														
		STD	0200	1355	3425	2572	0023349	0549	15050														
		STD	0250	1120	3414	2609	0019875	0657	14977														
	026	OBS	0280	1024	34097	2623			14947														
		STD	0300	1008	3410	2625	0018380	0753	14944														
	031	OBS	T0364	0935	34092	2637			14928														
		STD	0400	0857	3406	2647	0016411	0927	14904														
	031	OBS	T0495	0689	34003	2667			14854														
		STD	0500	0684	3400	2667	0014480	1081	14853														
	031	OBS	0570	0595	33987	2678			14829														
		STD	0600	0539	3400	2686	0012691	1217	14811														
	031	OBS	T0627	0495	34029	2693			14798														
		STD	0700	0470																			
		STD	0800	0436																			
		STD	0900	0402																			
	031	OBS	T0966	0380																			

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INDIC	MAPS ON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT					
31	1200	RT	3000 N	139583W		122	09	01	14	198	1968	N12	008	4206	14	28	6	5		x1	8	1	0008					
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
									25		524	149					189	172	7	14								
MESSENGER TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-x10 ³	$\Sigma \Delta D$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	Si O ₄ -Si µg - at/l	pH	S CC											
		STD	0000	1904	3513	2513	0028419	0000	15196																			
198		OBS	0000	1904	35133	2513			15196																			
198		OBS	0009	1906	35126	2512			15198																			
		STD	0010	1906	3513	2512	0028524	0028	15198																			
		STD	0020	1906	3513	2512	0028559	0057	15200																			
		STD	0030	1906	3513	2512	0028593	0086	15202																			
198		OBS	0033	1906	35134	2513			15202																			
		STD	0050	1907	3513	2512	0028662	0143	15205																			
198		OBS	0051	1907	35133	2512			15205																			
		STD	0075	1910	3514	2512	0028800	0215	15210																			
198		OBS	0079	1910	35135	2512			15211																			
		STD	0100	1910	3514	2512	0028888	0287	15214																			
198		OBS	0101	1910	35136	2512			15214																			
		STD	0125	1765	3484	2525	0027659	0357	15173																			
		STD	0150	1633	3459	2538	0026556	0425	15135																			
198		OBS	0151	1628	34586	2538			15133																			
		STD	0200	1430	3433	2563	0024272	0552	15076																			
198		OBS	T0203	1418	34318	2564			15072																			
		STD	0250	1207	3419	2597	0021082	0666	15008																			
		STD	0300	1032	3409	2621	0018806	0765	14953																			
198		OBS	0300	1032	34093	2621			14953																			
198		OBS	T0395	0839	34038	2648			14896																			
		STD	0400	0831	3404	2649	0016183	0940	14894																			
		STD	0500	0685	3401	2668	0014398	1093	14854																			
198		OBS	0582	0587	33993	2680			14828																			
		STD	0600	0568	3403	2685	0012838	1229	14824																			
		STD	0700	0478	3418	2707	0010709	1347	14805																			
198		OBS	0760	0438	34259	2718			14800																			
		STD	0800	0425	3430	2723	0009279	1447	14802																			
		STD	0900	0394	3438	2732	0008409	1536	14806																			
198		OBS	T0937	0383	34403	2735			14808																			
		STD	1000	0366	3444	2740	0007718	1616	14812																			
		STD	1100	0340	3449	2746	0007122	1690	14818																			
		STD	1200	0318	3453	2752	0006641	1759	14826																			
		STD	1300	0299	3455	2755	0006339	1824	14835																			
		STD	1400	0283	3455	2756	0006214	1887	14845																			
198		OBS	T1432	0278	34552	2757			14848																			

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PORT INDIC	MARSCON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	1200	RT	28222N	140005W		087	80	01	15	198	1968	N12	009	5029	15	36	3	4		X1	6	6	0009
						WATER		WIND		BARO- METER (mbst)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE	TRANS. (m)					DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
							00	500	220		189	178	7	14									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE						
		STD	0000	2030	3528	2491	0030489	0000	15233														
198		OBS	0000	2030	35279	2491			15233														
		STD	0010	2028	3528	2492	0030467	0030	15234														
198		OBS	0010	2028	35280	2492			15234														
		STD	0020	2029	3528	2492	0030494	0061	15236														
198		OBS	0029	2029	35286	2492			15237														
		STD	0030	2029	3529	2492	0030520	0091	15237														
198		OBS	0048	2026	35283	2493			15240														
		STD	0050	2026	3528	2493	0030531	0153	15240														
198		OBS	0072	2024	35290	2494			15243														
		STD	0075	2023	3529	2494	0030493	0229	15243														
198		OBS	0096	2016	35297	2496			15245														
		STD	0100	1998	3526	2498	0030175	0305	15240														
		STD	0125	1893	3508	2512	0028965	0379	15213														
198		OBS	0146	1809	34934	2522			15191														
		STD	0150	1798	3491	2523	0028005	0450	15188														
		STD	0200	1621	3464	2544	0026079	0585	15140														
198		OBS	T0206	1595	34608	2548			15132														
		STD	0250	1314	3431	2585	0022236	0706	15046														
198		OBS	0294	1098	34106	2610			14976														
		STD	0300	1082	3410	2613	0019613	0810	14971														
198		OBS	T0398	0850	34040	2647			14901														
		STD	0400	0846	3404	2647	0016390	0990	14900														
		STD	0500	0665	3404	2673	0013901	1142	14846														
198		OBS	T0586	0553	34046	2688			14815														
		STD	0600	0544	3406	2690	0012309	1273	14814														
		STD	0700	0484	3418	2707	0010782	1388	14808														
198		OBS	0784	0444	34268	2718			14806														
		STD	0800	0439	3428	2719	0009594	1490	14807														
		STD	0900	0407	3436	2729	0008710	1582	14811														
198		OBS	T0978	0384	34413	2736			14815														
		STD	1000	0378	3443	2738	0007933	1665	14817														
		STD	1100	0351	3448	2744	0007324	1741	14823														
		STD	1200	0327	3452	2750	0006820	1812	14830														
		STD	1300	0305	3455	2754	0006409	1878	14838														
		STD	1400	0286	3456	2757	0006175	1941	14846														
198		OBS	T1492	0270	34564	2759			14855														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	1200	RT	2825 N	139583W		086	89	01	16	197	1968	N12	010	4572	15	31	4	2		X1	8	5	0010			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
								11	506	240		194	178	7	14											
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C									
		STD	0000	2036	3531	2492	0030409	0000	15235																	
197		OBS	0000	2036	35311	2492			15235																	
197		OBS	0009	2038	35313	2492			15237																	
		STD	0010	2038	3531	2492	0030482	0030	15237																	
		STD	0020	2036	3531	2492	0030467	0061	15238																	
197		OBS	0029	2035	35312	2493			15239																	
		STD	0030	2035	3531	2493	0030485	0091	15239																	
197		OBS	0049	2034	35313	2493			15242																	
		STD	0050	2034	3531	2493	0030529	0152	15242																	
197		OBS	0074	2038	35310	2492			15247																	
		STD	0075	2038	3531	2492	0030730	0229	15247																	
197		OBS	0098	2031	35309	2493			15249																	
		STD	0100	2022	3529	2494	0030565	0306	15247																	
		STD	0125	1917	3510	2507	0029407	0381	15220																	
		STD	0150	1815	3493	2520	0028240	0453	15193																	
197		OBS	0150	1815	34933	2520			15193																	
		STD	0200	1627	3470	2547	0025776	0588	15142																	
197		OBS	T0204	1610	34676	2549			15138																	
		STD	0250	1317	3440	2591	0021644	0706	15048																	
		STD	0300	1078	3410	2613	0019566	0809	14969																	
197		OBS	0301	1074	34091	2613			14968																	
		STD	0400	0852	3404	2646	0016460	0989	14902																	
197		OBS	0400	0852	34043	2646			14902																	
		STD	0500	0672	3405	2673	0013945	1141	14849																	
		STD	0600	0542	3406	2690	0012314	1273	14813																	
197		OBS	T0608	0534	34057	2691			14811																	
		STD	0700	0482	3419	2708	0010684	1388	14807																	
197		OBS	0798	0436	34299	2721			14806																	
		STD	0800	0435	3430	2721	0009398	1488	14806																	
		STD	0900	0401	3437	2731	0008565	1578	14809																	
		STD	1000	0370	3443	2739	0007832	1660	14813																	
197		OBS	T1000	0370	34431	2739			14813																	
		STD	1100	0343	3448	2745	0007231	1735	14819																	
		STD	1200	0319	3452	2751	0006727	1805	14826																	
		STD	1300	0298	3454	2754	0006401	1871	14834																	
		STD	1400	0281	3456	2757	0006117	1933	14844																	
197		OBS	T1476	0271	34564	2759			14853																	

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE	STATION TIME IGMT1				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT	
31	1200	RT	28212N	139560W		086	89	01	17	197	1968	N12	011	4700	15	17	4	4		X5	8	5	0011		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB																
				17	S20	176		21	20				7	14											
MESSAGE# TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C								
		STD	0000	2023	3530	2495	0030167	0000	15231																
197		OBS	0000	2023	35299	2495			15231																
197		OBS	0009	2027	35301	2494			15234																
		STD	0010	2027	3530	2494	0030287	0030	15234																
		STD	0020	2026	3530	2494	0030295	0061	15235																
		STD	0030	2025	3530	2495	0030296	0091	15237																
197		OBS	0033	2025	35304	2495			15237																
		STD	0050	2024	3530	2495	0030367	0151	15240																
197		OBS	0051	2024	35300	2495			15240																
		STD	0075	2025	3530	2495	0030455	0228	15244																
197		OBS	0079	2025	35303	2495			15245																
		STD	0100	2016	3530	2497	0030340	0303	15246																
197		OBS	0101	2015	35298	2497			15245																
		STD	0125	1939	3516	2506	0029514	0378	15227																
		STD	0150	1854	3501	2516	0028613	0451	15205																
197		OBS	0151	1850	35007	2517			15204																
		STD	0200	1667	3475	2542	0026307	0588	15155																
197		OBS	10202	1658	34736	2543			15153																
		STD	0250	1358	3436	2580	0022737	0711	15061																
		STD	0300	1122	3412	2607	0020170	0818	14985																
197		OBS	0301	1118	34113	2607			14984																
197		OBS	10397	0888	34052	2642			14915																
		STD	0400	0880	3405	2643	0016827	1003	14913																
		STD	0500	0662	3406	2675	0013771	1156	14845																
197		OBS	10584	0536	34057	2691			14808																
		STD	0600	0528	3407	2693	0012034	1285	14808																
		STD	0700	0484	3418	2707	0010782	1399	14808																
197		OBS	0786	0448	34256	2717			14808																
		STD	0800	0442	3427	2718	0009704	1502	14808																
		STD	0900	0405	3436	2729	0008687	1594	14811																
197		OBS	10974	0380	34410	2736			14813																
		STD	1000	0372	3442	2737	0007951	1677	14814																
		STD	1100	0343	3445	2743	0007467	1754	14819																
		STD	1200	0318	3448	2747	0007025	1826	14825																
		STD	1300	0298	3451	2752	0006629	1895	14834																
		STD	1400	0281	3454	2756	0006271	1959	14844																
197		OBS	11466	0273	34559	2758			14852																

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 1/10	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311200		RT	2817 N	14002 W		087	80	01	18	198	1968	N12	012		4755	17	16	4	4		X1	3	6	0012
		WATER COLOR CODE	WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
			TRANS. (m)	DIR. OF FORCE		DRY BULB	WET BULB																	
				19	S21	173	222	217	8	14														
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	S							
		STD	0000	2024	3529	2494	0030228	0000	15231															
196		OBS	0000	2024	35294	2494			15231															
		STD	0010	2026	3530	2494	0030295	0030	15233															
196		OBS	0013	2026	35295	2494			15234															
		STD	0020	2026	3529	2494	0030351	0061	15235															
		STD	0030	2026	3529	2494	0030387	0091	15237															
196		OBS	0036	2026	35293	2494			15238															
		STD	0050	2024	3530	2494	0030390	0152	15239															
196		OBS	0059	2022	35296	2495			15240															
		STD	0075	2028	3532	2495	0030410	0228	15245															
196		OBS	0090	2032	35330	2495			15249															
		STD	0100	2032	3533	2495	0030511	0304	15250															
196		OBS	0118	2033	35341	2495			15254															
		STD	0125	2005	3528	2498	0030295	0380	15246															
		STD	0150	1903	3509	2510	0029222	0454	15220															
196		OBS	0176	1790	34898	2524			15190															
		STD	0200	1677	3474	2539	0026605	0594	15158															
196		OBS	T0235	1510	34532	2561			15110															
		STD	0250	1419	3445	2574	0023309	0719	15082															
		STD	0300	1155	3422	2609	0020029	0827	14998															
196		OBS	0348	0962	34072	2631			14935															
		STD	0400	0850	3403	2646	0016525	1010	14901															
196		OBS	T0457	0742	34013	2660			14869															
		STD	0500	0675	3403	2671	0014134	1163	14850															
		STD	0600	0547	3410	2693	0012051	1294	14816															
196		OBS	T0673	0480	34155	2705			14801															
		STD	0700	0470	3419	2709	0010538	1407	14802															
		STD	0800	0434	3430	2722	0009386	1507	14805															
196		OBS	0875	0409	34369	2730			14808															
		STD	0900	0402	3438	2731	0008503	1596	14810															
		STD	1000	0373	3444	2739	0007800	1677	14815															
196		OBS	T1089	0350	34475	2744			14820															
		STD	1100	0347	3448	2745	0007277	1753	14821															
		STD	1200	0323	3452	2750	0006773	1823	14828															
		STD	1300	0302	3455	2755	0006374	1889	14836															
		STD	1400	0283	3457	2758	0006067	1951	14845															
		STD	1500	0266	3458	2760	0005852	2011	14855															
196		OBS	T1664	0243	34589	2763			14873															

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		WOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	200	RT	3018 N	14002 W		123	00	01	19	200	1968	N12	013		4480	15	20	4	4		X1	3	6	0013
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)		DRY BULB	WET BULB											
										18	518	186	200				194	7	14					
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
		STD	0000	1899	3511	2513	0028465		0000	15195														
200		OBS	0000	1899	35110	2513				15195														
200		OBS	0008	1901	35112	2512				15196														
		STD	0010	1901	3511	2512	0028523		0028	15197														
		STD	0020	1901	3512	2513	0028534		0057	15198														
		STD	0030	1900	3512	2513	0028534		0086	15200														
200		OBS	0030	1900	35118	2513				15200														
200		OBS	0048	1899	35118	2513				15203														
		STD	0050	1899	3512	2513	0028564		0143	15203														
		STD	0075	1898	3513	2514	0028546		0214	15207														
200		OBS	0075	1898	35131	2514				15207														
200		OBS	0097	1900	35144	2515				15211														
		STD	0100	1895	3513	2515	0028566		0285	15210														
		STD	0125	1835	3498	2519	0028292		0357	15195														
200		OBS	0146	1753	34833	2528				15173														
		STD	0150	1725	3479	2531	0027178		0426	15165														
200		OBS	T0197	1437	34370	2564				15078														
		STD	0200	1424	3436	2566	0023931		0554	15074														
		STD	0250	1224	3421	2595	0021252		0667	15014														
200		OBS	0294	1074	34113	2615				14967														
		STD	0300	1057	3411	2618	0019107		0767	14962														
200		OBS	T0491	0829	34031	2649				14892														
		STD	0400	0813	3403	2651	0015964		0943	14887														
		STD	0500	0654	3402	2673	0013906		1092	14842														
200		OBS	T0581	0557	34015	2685				14816														
		STD	0600	0543	3404	2689	0012445		1224	14814														
		STD	0700	0480	3416	2705	0010882		1341	14806														
200		OBS	0779	0440	34240	2716				14803														
		STD	0800	0433	3426	2719	0009671		1443	14804														
		STD	0900	0400	3435	2729	0008701		1535	14808														
200		OBS	T0978	0377	34412	2736				14812														
200		OBS	T1510	0268	34564	2759				14857														

TABLE VIII.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCH	MARSON SQUARE		STATION TIME GMT		YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311200	RT	30108N	14003 W		123	00	01	20	197	1968	N12 014	4755	15	21	4	2		X1	6	7	0014	
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								18		S13	240					200	194	7	14			
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ OYN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH					
		STD	0000	1904	3514	2513	0028390		0000	15196												
197		OBS	0000	1904	35137	2513				15196												
197		OBS	0009	1906	35142	2513				15198												
		STD	0010	1906	3514	2513	0028435		0028	15199												
		STD	0020	1905	3514	2514	0028423		0057	15200												
		STD	0030	1903	3515	2514	0028421		0085	15201												
197		OBS	0033	1903	35146	2514				15202												
		STD	0050	1903	3515	2514	0028473		0142	15204												
197		OBS	0050	1903	35146	2514				15204												
		STD	0075	1903	3514	2514	0028603		0214	15208												
197		OBS	0077	1903	35137	2514				15209												
		STD	0100	1901	3514	2515	0028625		0285	15212												
197		OBS	0100	1901	35142	2515				15212												
		STD	0125	1820	3496	2521	0028080		0356	15191												
		STD	0150	1720	3477	2531	0027208		0425	15163												
197		OBS	0150	1720	34770	2531				15163												
		STD	0200	1461	3437	2559	0024618		0555	15086												
197		OBS	T0201	1456	34367	2560				15085												
		STD	0250	1231	3421	2594	0021382		0670	15016												
		STD	0300	1047	3410	2619	0018988		0771	14958												
197		OBS	0300	1047	34103	2619				14958												
197		OBS	T0398	0819	34026	2650				14889												
		STD	0400	0815	3403	2651	0016023		0946	14888												
		STD	0500	0638	3403	2676	0013661		1094	14835												
197		OBS	T0589	0527	34026	2689				14805												
		STD	0600	0521	3404	2691	0012170		1223	14805												
		STD	0700	0473	3417	2707	0010722		1338	14803												
197		OBS	0783	0439	34254	2717				14804												
		STD	0800	0433	3427	2719	0009597		1439	14804												
		STD	0900	0402	3435	2729	0008725		1531	14809												
197		OBS	T0978	0380	34408	2736				14814												
		STD	1000	0374	3441	2737	0008004		1614	14815												
		STD	1100	0348	3444	2742	0007555		1692	14821												
		STD	1200	0324	3447	2746	0007132		1766	14828												
		STD	1300	0303	3450	2751	0006739		1835	14836												
		STD	1400	0285	3453	2755	0006377		1901	14846												
197		OBS	T1491	0270	34558	2758				14855												

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORIGINATOR'S	STATION TIME (GMT)	YEAR	DEPTH TO BOTTOM		MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.							CRUISE NO.	STATION NUMBER		DIR.	HGT	PER	SEA		TYPE	AMT	
31	1200	RT	2958 N	14005 W	087 90	01 21 196	1968	N12	015	4114	40	30	4	2		X1	6 7	0015
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB							
						13	505	193	200	189	7	20						
MESSAGE TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S/C	
		STD	0000	1900	3513	2514	0028329	0000	15195									
196		OBS	0000	1900	35132	2514			15195									
		STD	0010	1902	3513	2514	0028405	0028	15197									
196		OBS	0010	1902	35133	2514			15197									
		STD	0020	1899	3513	2514	0028359	0057	15198									
		STD	0030	1898	3514	2515	0028362	0085	15199									
196		OBS	0030	1898	35135	2515			15199									
196		OBS	0049	1900	35135	2514			15203									
		STD	0050	1900	3514	2514	0028480	0142	15203									
196		OBS	0074	1899	35139	2515			15207									
		STD	0075	1899	3514	2515	0028505	0213	15207									
196		OBS	0098	1899	35142	2515			15211									
		STD	0100	1885	3511	2516	0028465	0284	15207									
		STD	0125	1729	3479	2530	0027190	0354	15162									
196		OBS	0149	1601	34553	2542			15124									
		STD	0150	1597	3455	2543	0026056	0421	15123									
		STD	0200	1406	3429	2565	0024076	0546	15068									
196		OBS	T0201	1402	34286	2565			15066									
		STD	0250	1189	3418	2599	0020824	0658	15001									
196		OBS	0299	1024	34100	2623			14950									
		STD	0300	1022	3410	2623	0018586	0757	14949									
196		OBS	0397	0842	34041	2648			14898									
		STD	0400	0835	3404	2649	0016215	0931	14896									
		STD	0500	0648	3404	2675	0013692	1080	14839									
196		OBS	T0598	0520	34038	2691			14804									
		STD	0600	0519	3404	2691	0012145	1209	14804									
		STD	0700	0470	3417	2707	0010686	1324	14802									
196		OBS	0796	0431	34268	2719			14803									
		STD	0800	0430	3427	2720	0009561	1425	14803									
		STD	0900	0402	3435	2729	0008725	1516	14809									
196		OBS	0999	0377	34418	2737			14816									
		STD	1000	0377	3442	2737	0007995	1600	14816									
		STD	1100	0353	3445	2742	0007569	1678	14823									
		STD	1200	0331	3448	2746	0007162	1751	14831									
		STD	1300	0310	3451	2751	0006762	1821	14839									
		STD	1400	0291	3453	2754	0006455	1887	14848									
196		OBS	T1498	0273	34555	2758			14857									
		STD	1500	0273	3456	2758	0006081	1950	14858									
		STD	1750	0233	3459	2764	0005518	2095	14883									
216		OBS	T1912	0212	34610	2767			14902									
		STD	2000	0204	3462	2769	0005060	2427	14913									
216		OBS	T2416	0174	34646	2773			14972									
		STD	2500	0171	3465	2774	0004613	2469	14985									
216		OBS	2933	0158	34664	2776			15054									
		STD	3000	0157	3467	2776	0004437	2695	15065									
216		OBS	3425	0152	34675	2777			15137									
216		OBS	T3865	0149	34684	2778			15213									
216		OBS	T3964	0149	34680	2778			15231									

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA		TYPE	AMT					
31	1200	RT	29598N	13957 W	086	99	01	22 194	1968	N12	016	4572	15	12	3	3		X1	6	6		0016			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB												
									13	512	254	189	161	8	14										
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC								
		STD	0000	1879	3506	2514	0028322	0000	15188																
194		OBS	0000	1879	35063	2514			15188																
		STD	0010	1883	3507	2513	0028424	0028	15191																
194		OBS	0010	1883	35067	2513			15191																
		STD	0020	1880	3507	2514	0028400	0057	15192																
194		OBS	0029	1879	35063	2514			15193																
		STD	0030	1879	3506	2514	0028430	0085	15193																
194		OBS	0048	1882	35066	2514			15197																
		STD	0050	1882	3507	2514	0028522	0142	15198																
194		OBS	0072	1886	35084	2514			15202																
		STD	0075	1892	3510	2514	0028625	0214	15205																
194		OBS	0097	1896	35121	2514			15210																
		STD	0100	1880	3509	2516	0028492	0485	15205																
		STD	0125	1753	3483	2528	0027453	0355	15170																
194		OBS	0146	1657	34655	2537			15142																
		STD	0150	1643	3463	2538	0026488	0422	15138																
194		OBS	T0198	1462	34372	2559			15086																
		STD	0200	1451	3436	2560	0024484	0550	15083																
		STD	0250	1215	3419	2595	0021231	0664	15011																
194		OBS	0291	1065	34093	2615			14963																
		STD	0300	1045	3409	2618	0019049	0765	14958																
194		OBS	T0383	0872	34046	2644			14907																
		STD	0400	0831	3404	2650	0016132	0941	14894																
		STD	0500	0628	3403	2678	0013468	1089	14831																
194		OBS	T0573	0525	34027	2690			14802																
		STD	0600	0510	3407	2695	0011811	1215	14801																
		STD	0700	0460	3419	2710	0010417	1326	14798																
194		OBS	0769	0432	34265	2719			14799																
		STD	0800	0423	3429	2722	0009330	1425	14801																
		STD	0900	0395	3437	2731	0008495	1514	14807																
194		OBS	0967	0378	34411	2736			14811																
		STD	1000	0370	3443	2739	0007839	1596	14813																
		STD	1100	0346	3448	2745	0007266	1671	14821																
		STD	1200	0324	3452	2750	0006785	1741	14829																
		STD	1300	0304	3454	2754	0006471	1808	14837																
		STD	1400	0287	3455	2756	0006261	1871	14847																
194		OBS	T1459	0277	34552	2757			14852																

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR. HGT PER SEA				TYPE	AMT					
31	1200	RT	3003 N	14000 W		123	00	01	23	195	1968	N12	017	4115	16	26	5	2		X1	6 3		0017	
						WATER		WIND		BARO- METER (mbst)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
							07	S12	247	19	16	7	14											
MESSAGE TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C							
		STO	0000	1898	3515	2516	0028121	0000	15195															
195		OBS	0000	1898	35154	2516			15195															
195		OBS	0009	1900	35154	2516			15197															
		STO	0010	1900	3515	2516	0028204	0028	15197															
		STO	0020	1900	3515	2516	0028226	0056	15198															
		STO	0030	1899	3515	2516	0028258	0085	15200															
195		OBS	0032	1899	35153	2516			15200															
		STO	0050	1900	3516	2516	0028332	0141	15204															
195		OBS	0051	1900	35155	2516			15204															
		STO	0075	1901	3516	2516	0028421	0212	15208															
195		OBS	0078	1901	35158	2516			15208															
		STO	0100	1885	3512	2517	0028396	0283	15207															
195		OBS	0101	1882	35112	2517			15206															
		STO	0125	1707	3475	2532	0026978	0352	15155															
		STO	0150	1553	3448	2547	0025613	0418	15109															
195		OBS	0152	1542	34458	2548			15105															
		STO	0200	1336	3422	2574	0023194	0540	15044															
195		OBS	0203	1324	34213	2575			15040															
		STO	0250	1146	3415	2605	0020265	0549	14986															
		STO	0300	0997	3410	2627	0018167	0745	14940															
195		OBS	0305	0985	34097	2629			14937															
		STO	0400	0835	3404	2649	0016251	0917	14896															
195		OBS	0407	0824	34031	2650			14892															
		STO	0500	0645	3405	2677	0013548	1066	14838															
		STO	0600	0508	3408	2696	0011720	1192	14800															
195		OBS	T0610	0498	34081	2697			14797															
		STO	0700	0459	3419	2710	0010405	1303	14798															
		STO	0800	0423	3429	2722	0009330	1402	14801															
195		OBS	0821	0416	34310	2724			14801															
		STO	0900	0399	3437	2731	0008542	1491	14808															
		STO	1000	0377	3443	2738	0007922	1573	14816															
195		OBS	1034	0370	34445	2740			14819															
		STO	1100	0356	3448	2744	0007383	1650	14825															
		STO	1200	0335	3452	2749	0006914	1721	14833															
		STO	1300	0315	3455	2753	0006527	1788	14842															
		STO	1400	0294	3457	2757	0006196	1852	14850															
		STO	1500	0274	3457	2759	0006020	1913	14858															
195		OBS	T1572	0260	34574	2760			14864															

TABLE VIII.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARKS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		RMT
311200	RT	3002 N	140015 W	123 00	01	24	196	1968	N12	018	4389	15	08	2	3			X2	6	8		0018
WATER					WIND			BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE				DRY BULB		WET BULB													
			09	S16			224		183	156	7	14										
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	1898	3514	2515	0028201	0000	15195													
196		OBS	0000	1898	35143	2515			15195													
196		OBS	0009	1901	35150	2515			15197													
		STD	0010	1901	3515	2515	0028255	0028	15197													
		STD	0020	1900	3515	2516	0028258	0056	15198													
		STD	0030	1898	3515	2516	0028261	0085	15200													
196		OBS	0032	1898	35145	2516			15200													
		STD	0050	1899	3514	2515	0028405	0141	15203													
196		OBS	0050	1899	35142	2515			15203													
		STD	0075	1900	3514	2515	0028527	0213	15207													
196		OBS	0078	1900	35135	2514			15208													
196		OBS	0099	1893	35122	2515			15209													
		STD	0100	1888	3511	2515	0028541	0284	15208													
		STD	0125	1764	3485	2525	0027563	0354	15173													
196		OBS	0148	1657	34652	2537			15143													
		STD	0150	1648	3464	2538	0026526	0422	15140													
196		OBS	T0199	1445	34364	2562			15081													
		STD	0200	1440	3436	2563	0024258	0549	15080													
		STD	0250	1232	3420	2593	0021474	0663	15016													
196		OBS	0294	1083	34104	2613			14970													
		STD	0300	1068	3410	2615	0019370	0765	14966													
196		OBS	T0384	0880	34054	2643			14910													
		STD	0400	0845	3405	2648	0016301	0943	14900													
		STD	0500	0659	3402	2673	0013959	1095	14844													
196		OBS	T0572	0559	34006	2684			14815													
		STD	0600	0536	3404	2689	0012357	1226	14811													
		STD	0700	0467	3417	2706	0010650	1341	14801													
196		OBS	0768	0431	34247	2718			14798													
		STD	0800	0421	3428	2721	0009380	1441	14800													
		STD	0900	0393	3437	2731	0008471	1531	14806													
196		OBS	T0953	0379	34406	2736			14809													
		STD	1000	0367	3442	2738	0007878	1612	14812													
		STD	1100	0343	3445	2743	0007452	1689	14819													
		STD	1200	0321	3448	2747	0007052	1762	14827													
		STD	1300	0301	3451	2751	0006664	1830	14835													
		STD	1400	0283	3454	2755	0006302	1895	14845													
196		OBS	T1490	0269	34565	2759			14854													

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT			
31	1200	RT	3003 N	14000 W	123	00	01	25	195	1968	N12	019	4389	15	06	3	4		X1	6	7		0019			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB															
								06	508	213	183	161	7	14												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S CODE									
		STD	0000	1893	3513	2516	0028145	0000	15193																	
195		OBS	0000	1893	35134	2516			15193																	
		STD	0010	1892	3515	2517	0028046	0028	15195																	
195		OBS	0010	1892	35149	2517			15195																	
		STD	0020	1893	3515	2517	0028093	0056	15196																	
195		OBS	0029	1893	35149	2517			15198																	
		STD	0030	1893	3515	2517	0028139	0084	15196																	
195		OBS	0049	1892	35148	2517			15201																	
		STD	0050	1892	3515	2517	0028191	0141	15201																	
195		OBS	0073	1892	35147	2517			15205																	
		STD	0075	1892	3515	2517	0028287	0211	15205																	
195		OBS	0098	1893	35147	2517			15209																	
		STD	0100	1884	3513	2518	0028299	0262	15207																	
		STD	0125	1775	3484	2527	0027529	0352	15177																	
195		OBS	0149	1668	34694	2537			15147																	
		STD	0150	1663	3469	2538	0026498	0419	15145																	
		STD	0200	1437	3436	2563	0024196	0546	15079																	
195		OBS	0202	1428	34350	2565			15076																	
		STD	0250	1203	3424	2601	0020679	0658	15007																	
		STD	0300	1023	3412	2624	0018492	0756	14950																	
195		OBS	0302	1017	34110	2625			14948																	
		STD	0400	0829	3402	2648	0016278	0930	14893																	
195		OBS	T0403	0824	34014	2648			14892																	
		STD	0500	0631	3402	2676	0013612	1079	14832																	
		STD	0600	0497	3407	2696	0011668	1206	14795																	
195		OBS	T0600	0497	34068	2696			14795																	
		STD	0700	0457	3420	2711	0010307	1316	14797																	
195		OBS	0798	0423	34297	2723			14800																	
		STD	0800	0422	3430	2723	0009244	1413	14800																	
		STD	0900	0396	3437	2731	0008506	1502	14807																	
195		OBS	T0993	0373	34429	2738			14814																	
195		OBS	T1503	0267	34565	2759			14656																	

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH FATHOMS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRT CODE	ID. NO.					10°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT.	
31	1200	RT	30003N	139553W	122	09	01	26	196	1968	N12	020		4389	14	04	4	4		X2	6	8	0020
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								07	S22	207	172	156	7	13									
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STO	0000	1869	3508	2518	0027980	0000	15186														
196		OBS	0000	1869	35077	2518			15186														
		STO	0010	1873	3508	2517	0028096	0028	15188														
196		OBS	0010	1873	35079	2517			15188														
		STO	0020	1872	3508	2517	0028099	0056	15190														
		STO	0030	1871	3508	2518	0028094	0084	15191														
196		OBS	0030	1871	35082	2518			15191														
		STO	0050	1873	3508	2517	0028211	0141	15195														
196		OBS	0050	1873	35082	2517			15195														
		STO	0075	1873	3509	2517	0028259	0211	15199														
196		OBS	0077	1873	35087	2517			15200														
		STO	0100	1872	3508	2517	0028400	0282	15203														
196		OBS	0100	1872	35076	2517			15203														
		STO	0125	1710	3477	2533	0026901	0351	15156														
		STO	0150	1569	3454	2548	0025535	0417	15114														
196		OBS	0150	1569	34538	2548			15114														
		STO	0200	1354	3427	2574	0023183	0538	15050														
196		OBS	0202	1346	34262	2575			15048														
		STO	0250	1150	3418	2607	0020116	0647	14988														
		STO	0300	1005	3412	2628	0018154	0742	14943														
196		OBS	0303	0998	34113	2628			14941														
196		OBS	T0370	0904	34060	2640			14917														
		STO	0400	0849	3404	2647	0016436	0915	14901														
196		OBS	T0414	0825	34038	2650			14894														
		STO	0500	0713	3412	2673	0014000	1067	14866														
		STO	0600	0599	3420	2694	0011984	1197	14838														
		STO	0700	0501	3428	2713	0010251	1309	14816														
		STO	0800	0419	3434	2726	0008912	1404	14800														
196		OBS	T0856	0380	34375	2733			14793														
		STO	0900	0372	3439	2735	0008090	1489	14797														
		STO	1000	0353	3442	2739	0007719	1568	14806														
		STO	1100	0334	3445	2744	0007344	1644	14815														
		STO	1200	0315	3448	2748	0006972	1715	14824														
		STO	1300	0296	3451	2752	0006588	1783	14833														
		STO	1400	0277	3454	2756	0006199	1847	14842														
196		OBS	T1414	0274	34546	2757			14843														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INOC	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLDUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	1200	RT	30004N	139576W		122	09	01	27	157	1968	N12	021	4206	13	04	4	4		X4	6	8	0021
						WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
									04	516	220	161	128	7	14								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C					
		STD	0000	1880	3512	2518	0027911		0000	15189													
157		OBS	0000	1880	35123	2518				15189													
157		OBS	0008	1884	35118	2517				15192													
		STD	0010	1883	3512	2517	0028039		0028	15192													
		STD	0020	1881	3512	2518	0028018		0056	15193													
157		OBS	0020	1881	35121	2518				15193													
		STD	0030	1880	3512	2518	0028040		0084	15194													
157		OBS	0045	1879	35119	2518				15196													
		STD	0050	1880	3512	2518	0028104		0140	15197													
157		OBS	0070	1883	35122	2518				15202													
		STD	0075	1883	3512	2518	0028247		0211	15203													
157		OBS	0090	1884	35124	2518				15205													
		STD	0100	1825	3500	2523	0027826		0281	15189													
		STD	0125	1700	3474	2533	0026891		0349	15153													
157		OBS	0135	1659	34667	2537				15141													
		STD	0150	1628	3462	2541	0026228		0416	15134													
157		OBS	T0183	1529	34505	2555				15107													
		STD	0200	1419	3439	2569	0023610		0540	15073													
		STD	0250	1162	3414	2601	0020626		0651	14992													
157		OBS	0267	1096	34085	2609				14970													
		STD	0300	1030	3408	2621	0018846		0749	14952													
157		OBS	T0348	0936	34079	2636				14925													
		STD	0400	0816	3402	2650	0016082		0924	14888													
		STD	0500	0635	3398	2672	0013961		1074	14833													
157		OBS	T0526	0599	33979	2677				14823													
		STD	0600	0540	3404	2689	0012407		1206	14812													
		STD	0700	0476	3414	2704	0010981		1323	14804													
157		OBS	0707	0472	34143	2705				14804													
		STD	0800	0435	3425	2718	0009769		1427	14805													
157		OBS	0884	0405	34336	2728				14808													
		STD	0900	0400	3435	2729	0006701		1519	14808													
		STD	1000	0369	3443	2739	0007827		1602	14813													
		STD	1100	0342	3449	2746	0007145		1677	14819													
		STD	1200	0320	3452	2751	0006738		1746	14827													
		STD	1300	0303	3454	2754	0006459		1812	14837													
157		OBS	T1347	0296	34541	2754				14842													

TABLE IX. Observed and interpolated oceanographic data for stations taken by USCGC WACHUSETT at Ocean Station NOVEMBER, 28 January-18 February 1968, prepared from NODC Listing No. 31-1205 WC.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10				CRUISE NO.	STATION NUMBER			DIR.	HGT		PER	SEA	TYPE	AMT
31	1205	WC	29525N	13959 W	086	99	02	01	194	1968	N13	001	3658	15	24			3		5 3	0001				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB													
								24	514	149		189	183	7	14										
MESSAGE TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	S C								
		STD	0000	1872	3509	2518	0027965	0000	15187																
194		OBS	0000	1872	35089	2518			15187																
194		OBS	0009	1866	35091	2520			15186																
		STD	0010	1866	3509	2520	0027838	0028	15187																
		STD	0020	1865	3509	2520	0027843	0056	15188																
		STD	0030	1864	3509	2520	0027849	0084	15189																
194		OBS	0031	1864	35093	2520			15190																
194		OBS	0048	1865	35092	2520			15193																
		STD	0050	1864	3509	2520	0027921	0139	15193																
		STD	0075	1858	3509	2522	0027862	0209	15195																
194		OBS	0075	1858	35092	2522			15195																
194		OBS	0097	1856	35092	2522			15198																
		STD	0100	1842	3506	2523	0027795	0279	15194																
		STD	0125	1731	3481	2531	0027091	0347	15163																
194		OBS	0145	1647	34648	2539			15139																
		STD	0150	1628	3462	2541	0026228	0414	15134																
194		OBS	T0193	1461	34394	2561			15086																
		STD	0200	1426	3436	2566	0023971	0539	15075																
		STD	0250	1206	3419	2597	0021064	0652	15007																
194		OBS	0290	1068	34094	2615			14964																
		STD	0300	1047	3409	2618	0019083	0752	14958																
194		OBS	T0388	0869	34048	2644			14907																
		STD	0400	0841	3405	2648	0016269	0929	14898																
		STD	0500	0642	3403	2676	0013663	1079	14837																
194		OBS	T0579	0530	34022	2689			14805																
		STD	0600	0516	3405	2693	0012034	1207	14803																
		STD	0700	0460	3417	2708	0010566	1320	14798																
194		OBS	0776	0427	34246	2718			14798																
		STD	0800	0421	3427	2721	0009454	1420	14799																
		STD	0900	0398	3435	2729	0008678	1511	14808																
194		OBS	T0969	0382	34403	2735			14813																
		STD	1000	0375	3441	2737	0008031	1595	14815																
		STD	1100	0353	3444	2741	0007643	1673	14823																
		STD	1200	0332	3447	2745	0007255	1747	14831																
		STD	1300	0311	3450	2750	0006870	1818	14839																
		STD	1400	0291	3453	2754	0006492	1885	14848																
194		OBS	T1497	0272	34553	2758			14857																

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUNIT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	1205	WC	2957 N	139555W		086	99	02	04	009	1968	N13	002	4114	15	29			2		3	6	0002
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLD CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
																32	502	200	206	194	8	14	
MESSNGR TIME HR 1/10	CAS NO.	CAS TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY		O ₂ ml/l	PD ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SIO ₄ -Si $\mu g - ml/l$	pH	S	C		
		STD	0000	1925	3514	2508		0028881		0000	15202												
009		OBS	0000	1925	35140	2508					15202												
		STD	0010	1884	3509	2515		0028252		0029	15192												
009		OBS	0010	1884	35094	2515					15192												
		STD	0020	1879	3509	2516		0028180		0057	15192												
		STD	0030	1874	3509	2517		0028108		0085	15192												
009		OBS	0030	1874	35090	2517					15192												
009		OBS	0049	1868	35080	2518					15193												
		STD	0050	1868	3508	2518		0028105		0141	15194												
009		OBS	0074	1868	35078	2518					15198												
		STD	0075	1868	3508	2518		0028204		0212	15198												
009		OBS	0099	1868	35079	2518					15202												
		STD	0100	1865	3507	2518		0028275		0282	15201												
		STD	0125	1776	3488	2526		0027625		0352	15177												
		STD	0150	1671	3469	2536		0026677		0420	15148												
009		OBS	0151	1667	34680	2537					15146												
		STD	0200	1415	3431	2564		0024113		0547	15071												
009		OBS	0204	1396	34284	2566					15065												
		STD	0250	1213	3418	2595		0021267		0660	15010												
		STD	0300	1044	3409	2619		0019032		0761	14957												
009		OBS	0303	1035	34085	2620					14954												
		STD	0400	0802	3401	2652		0015932		0936	14884												
009		OBS	T0402	0798	34010	2652					14881												
		STD	0500	0627	3403	2677		0013477		1083	14831												
		STD	0600	0505	3405	2694		0011884		1210	14798												
009		OBS	T0605	0500	34053	2695					14797												
		STD	0700	0458	3418	2709		0010468		1321	14797												
		STD	0800	0421	3429	2722		0009306		1426	14800												
009		OBS	0806	0419	34292	2723					14800												
		STD	0900	0393	3436	2731		0008545		1510	14806												
		STD	1000	0367	3443	2739		0007804		1591	14812												
009		OBS	T1005	0366	34432	2739					14813												
		STD	1100	0343	3448	2745		0007231		1667	14819												
		STD	1200	0321	3452	2750		0006750		1736	14827												
		STD	1300	0301	3455	2755		0006362		1802	14836												
		STD	1400	0282	3456	2757		0006129		1864	14845												
		STD	1500	0265	3456	2759		0005987		1925	14854												
009		OBS	T1514	0263	34562	2759					14856												

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	ORIG. NO.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1205	WC	29463N	140177W		087	90	02	04	196	1968	N13	003	4198	15	30			2		6	5	0003
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								09	506	217	189	183	7	14									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C					
		STD	0000	1929	3521	2513	0028464		0000	15204													
	196	OBS	0000	1929	35211	2513				15204													
	196	OBS	0009	1924	35211	2514				15204													
		STD	0010	1924	3521	2514	0028369		0028	15204													
		STD	0020	1921	3522	2515	0028286		0057	15205													
	196	OBS	0028	1920	35223	2516				15206													
		STD	0030	1920	3522	2516	0028260		0085	15207													
	196	OBS	0048	1918	35224	2516				15209													
		STD	0050	1917	3522	2517	0028271		0142	15209													
		STD	0075	1909	3520	2517	0028343		0212	15211													
	196	OBS	0078	1908	35193	2517				15211													
	196	OBS	0097	1867	35114	2521				15201													
		STD	0100	1863	3510	2521	0028009		0283	15201													
		STD	0125	1805	3498	2526	0027580		0352	15187													
	196	OBS	0146	1721	34831	2535				15164													
		STD	0150	1708	3481	2537	0026644		0420	15160													
		STD	0200	1418	3433	2565	0024042		0547	15072													
	196	OBS	T0200	1418	34328	2565				15072													
		STD	0250	1211	3420	2597	0021083		0660	15009													
	196	OBS	0297	1054	34107	2618				14961													
		STD	0300	1047	3410	2619	0019010		0760	14958													
	196	OBS	T0396	0844	34037	2647				14898													
		STD	0400	0835	3404	2649	0016244		0936	14896													
		STD	0500	0643	3404	2676	0013609		1085	14837													
	196	OBS	T0592	0519	34047	2692				14803													
		STD	0600	0514	3406	2694	0011935		1213	14802													
		STD	0700	0462	3418	2709	0010516		1325	14799													
	196	OBS	0788	0425	34266	2720				14799													
		STD	0800	0422	3428	2721	0009392		1425	14800													
		STD	0900	0395	3436	2730	0008569		1515	14806													
	196	OBS	0987	0373	34414	2737				14812													
		STD	1000	0370	3442	2738	0007913		1597	14813													
		STD	1100	0346	3448	2745	0007266		1673	14821													
		STD	1200	0324	3452	2750	0006785		1743	14829													
		STD	1300	0303	3454	2754	0006459		1809	14837													
		STD	1400	0283	3456	2757	0006140		1872	14845													
	196	OBS	T1485	0268	34563	2759				14853													

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MACHINE	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO, NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
311	205	WC	3004 N	14003 W		123	00	02	05	190	1968	N13	004	4160	13	11	3	2		6	6	0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB									
								14	S15	190	189	183	7	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	$\frac{1}{2}$ C					
		STD	0000	1912	3518	2515	0028280	0000	15199													
190		OBS	0000	1912	35179	2515			15199													
190		OBS	0006	1907	35176	2516			15199													
		STD	0010	1907	3518	2516	0028212	0028	15199													
		STD	0020	1906	3517	2516	0028242	0056	15200													
190		OBS	0025	1905	35171	2516			15201													
		STD	0030	1901	3516	2516	0028254	0085	15201													
190		OBS	0042	1890	35131	2517			15199													
		STD	0050	1879	3510	2517	0028225	0141	15197													
190		OBS	0065	1865	35075	2519			15195													
		STD	0075	1863	3509	2520	0027997	0211	15196													
190		OBS	0084	1860	35095	2521			15197													
		STD	0100	1847	3509	2524	0027690	0281	15196													
		STD	0125	1826	3501	2523	0027855	0351	15193													
190		OBS	0126	1825	35000	2523			15193													
		STD	0150	1693	3475	2536	0026738	0419	15155													
190		OBS	T0174	1562	34539	2550			15116													
		STD	0200	1394	3434	2571	0023469	0544	15064													
		STD	0250	1147	3410	2601	0020649	0655	14986													
190		OBS	0252	1139	34094	2602			14983													
		STD	0300	1036	3409	2620	0018874	0753	14954													
190		OBS	0337	0958	34092	2633			14932													
		STD	0400	0815	3410	2656	0015492	0925	14889													
		STD	0500	0637	3411	2682	0013040	1068	14836													
190		OBS	T0503	0633																		
		STD	0600	0531	3412	2696	0011716	1192	14810													
190		OBS	0673	0475	34125	2703			14799													
		STD	0700	0464	3416	2707	0010688	1304	14799													
		STD	0800	0424	3428	2721	0009416	1404	14801													
190		OBS	T0840	0410	34318	2726			14802													
		STD	0900	0390	3434	2730	0008628	1494	14804													
		STD	1000	0361	3439	2736	0008059	1578	14809													
		STD	1100	0337	3443	2742	0007537	1656	14816													
		STD	1200	0318	3447	2747	0007069	1729	14825													
		STD	1300	0304	3451	2752	0006662	1798	14837													
190		OBS	T1330	0301	34527	2753			14841													

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	OUT PORT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	205	WC	29525N	13959 W		086	99	02	06	188	1968	N13	005	4663	15	17	3	2			6	6	0005
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
				13	S04	173	194	189	7	14													
MESSINGR TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C						
		STD	0000	1886	3505	2511	0028607	0000	15190														
188		OBS	0000	1886	35047	2511			15190														
		STD	0010	1883	3505	2512	0028533	0029	15191														
188		OBS	0010	1883	35052	2512			15191														
		STD	0020	1878	3507	2515	0028316	0057	15191														
188		OBS	0028	1875	35030	2516			15192														
		STD	0030	1875	3508	2516	0028205	0085	15192														
188		OBS	0047	1875	35078	2516			15195														
		STD	0050	1877	3508	2516	0028321	0142	15196														
188		OBS	0071	1885	35110	2516			15202														
		STD	0075	1884	3512	2517	0028293	0213	15203														
188		OBS	0094	1881	35124	2518			15205														
		STD	0100	1862	3508	2520	0028130	0283	15200														
		STD	0125	1773	3490	2528	0027410	0353	15176														
188		OBS	0143	1702	34764	2535			15157														
		STD	0150	1669	3470	2538	0026560	0420	15147														
188		OBS	T0192	1476	34392	2557			15090														
		STD	0200	1433	3436	2564	0024115	0547	15077														
		STD	0250	1198	3419	2598	0020916	0659	15005														
188		OBS	0286	1066	34104	2616			14963														
		STD	0300	1035	3409	2620	0018879	0759	14954														
188		OBS	T0379	0871	34046	2644			14906														
		STD	0400	0827	3404	2650	0016086	0934	14893														
		STD	0500	0649	3403	2674	0013816	1083	14840														
188		OBS	T0573	0553	34012	2685			14813														
		STD	0600	0533	3405	2691	0012245	1213	14810														
		STD	0700	0469	3418	2708	0010600	1328	14802														
188		OBS	0765	0437	34248	2717			14800														
		STD	0800	0426	3428	2721	0009439	1428	14802														
		STD	0900	0398	3436	2730	0008604	1518	14808														
188		OBS	0961	0381	34403	2735			14811														
		STD	1000	0371	3443	2738	0007851	1600	14814														
		STD	1100	0346	3448	2745	0007266	1676	14821														
		STD	1200	0323	3452	2750	0006773	1746	14828														
		STD	1300	0302	3454	2754	0006447	1812	14836														
		STD	1400	0284	3455	2756	0006225	1876	14845														
188		OBS	T1451	0275	34554	2757			14850														

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	ID. NO.					CRUISE NO.	STATION NUMBER	10°		1°	MO			DAY	HR 1/10	DIR	HGT		PER	SEA		TYPE	AMT				
311205	WC	29548N	139507W	086	99	02	08	193	1968	N13	006	4389	15	15	2	2			6	9	0006						
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB																		
						00	500	156	200	194	8	14															
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	CO ₂										
		STD	0000	1897	3497	2502	0029454	0000	15192																		
193		OBS	0000	1897	34967	2502			15192																		
		STD	0010	1889	3505	2510	0028729	0029	15193																		
193		OBS	0010	1889	35045	2510			15193																		
		STD	0020	1883	3507	2514	0028436	0058	15193																		
		STD	0030	1878	3509	2516	0028227	0086	15193																		
193		OBS	0030	1873	35037	2516			15193																		
		STD	0050	1875	3509	2518	0028172	0142	15196																		
193		OBS	0050	1875	35004	2518			15196																		
		STD	0075	1876	3512	2520	0028063	0213	15200																		
193		OBS	0075	1876	35124	2520			15200																		
		STD	0100	1867	3512	2521	0027975	0483	15202																		
193		OBS	0100	1867	35118	2521			15202																		
		STD	0125	1747	3486	2531	0027096	0352	15168																		
		STD	0150	1629	3463	2542	0026177	0418	15134																		
193		OBS	0152	1620	34618	2543			15131																		
		STD	0200	1397	3431	2568	0023749	0543	15065																		
193		OBS	T0205	1375	34281	2570			15058																		
		STD	0250	1177	3418	2602	0020605	0654	14997																		
		STD	0300	1002	3410	2627	0018251	0751	14942																		
193		OBS	0305	0987	34091	2628			14937																		
		STD	0400	0795	3403	2654	0015733	0921	14880																		
193		OBS	0405	0786	34021	2655			14877																		
		STD	0500	0633	3409	2681	0013120	1065	14834																		
		STD	0600	0514	3416	2702	0011193	1187	14803																		
193		OBS	T0616	0499																							
		STD	0700	0454	3423	2714	0010049	1293	14796																		
		STD	0800	0412	3430	2724	0009126	1389	14796																		
193		OBS	0810	0408	34305	2725			14796																		
		STD	0900	0388	3437	2732	0008413	1477	14804																		
		STD	1000	0367	3443	2739	0007804	1558	14812																		
193		OBS	1015	0364	34441	2740			14814																		
		STD	1100	0347	3446	2743	0007418	1634	14821																		
		STD	1200	0327	3449	2747	0007078	1706	14829																		
		STD	1300	0307	3451	2751	0006734	1775	14838																		
		STD	1400	0288	3453	2755	0006398	1841	14847																		
		STD	1500	0270	3456	2758	0006068	1903	14856																		
193		OBS	T1530	0265	34564	2759			14859																		

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNID INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THEP CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	205					WC	3004 N	14031 W	123	00		02	11			001	1968	N13	007		4663	13	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
								36	503	156	200	156	8	13									
MESSAGE TIME HR. 1/10	CAT NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	ATMOSP.				
		STD	0000	1937	3520	2510		0028711		0000	15206												
001		OBS	0000	1937	35204	2510					15206												
001		OBS	0009	1932	35203	2511					15206												
		STD	0010	1931	3520	2512		0028605		0029	15206												
		STD	0020	1925	3520	2513		0028486		0057	15206												
001		OBS	0028	1922	35204	2514					15207												
		STD	0030	1922	3520	2514		0028450		0086	15207												
001		OBS	0046	1923	35202	2514					15210												
		STD	0050	1924	3520	2513		0028580		0143	15211												
001		OBS	0069	1925	35202	2513					15214												
		STD	0075	1924	3520	2513		0028672		0214	15215												
001		OBS	0092	1922	35200	2514					15217												
		STD	0100	1883	3513	2518		0028275		0285	15207												
		STD	0125	1759	3490	2531		0027084		0355	15172												
001		OBS	0141	1676	34757	2540					15148												
		STD	0150	1623	3465	2544		0025899		0421	15132												
001		OBS	T0191	1401	34293	2566					15065												
		STD	0200	1357	3427	2573		0023242		0544	15051												
		STD	0250	1140	3415	2606		0020157		0652	14984												
001		OBS	0282	1029	34100	2622					14949												
		STD	0300	0987	3408	2628		0018149		0748	14936												
001		OBS	0372	0830	34030	2649					14889												
		STD	0400	0767	3403	2658		0015285		0915	14869												
		STD	0500	0585	3403	2683		0012928		1056	14814												
001		OBS	0550	0520	34032	2691					14796												
		STD	0600	0491	3410	2699		0011357		1178	14793												
		STD	0700	0439	3423	2715		0009871		1284	14790												
001		OBS	0725	0427	34256	2719					14789												
		STD	0800	0412	3429	2723		0009200		1379	14796												
		STD	0900	0392	3434	2729		0008717		1469	14805												
		STD	1000	0372	3438	2734		0008238		1554	14814												
		STD	1100	0352	3442	2740		0007748		1633	14822												
		STD	1200	0332	3447	2745		0007253		1708	14831												
		STD	1300	0312	3451	2751		0006754		1778	14840												
001		OBS	T1304	0311	34516	2751					14840												

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DATE DDMMYY	MARSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					MO	DAY	HR.1/10	10'	1'		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	1205	WC	2958 N	13955 W		086	99	02	11	200	1968	N13	008	4389	15	34	4	2			5	5	0008
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				23		501	200	200	150	8	14												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₃ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₂ -Si µg - dl/l	pH	C C						
		STD	0000	1872	3503	2513	0028393	0000	15186														
	200	OBS	0000	1872	35030	2513			15186														
		STD	0010	1867	3503	2515	0028298	0028	15186														
	200	OBS	0011	1866	35027	2515			15186														
		STD	0020	1866	3503	2515	0028317	0057	15188														
		STD	0030	1866	3503	2515	0028351	0085	15189														
	200	OBS	0031	1866	35032	2515			15189														
		STD	0050	1867	3504	2515	0028376	0142	15193														
	200	OBS	0052	1867	35040	2515			15193														
		STD	0075	1873	3507	2516	0028392	0213	15199														
	200	OBS	0077	1874	35072	2516			15200														
		STD	0100	1869	3509	2518	0028262	0283	15202														
	200	OBS	0103	1867	35087	2519			15202														
		STD	0125	1851	3504	2519	0028240	0354	15201														
		STD	0150	1785	3492	2527	0027627	0424	15184														
	200	OBS	0156	1761	34878	2529			15178														
		STD	0200	1471	3442	2561	0024461	0554	15090														
	200	OBS	T0210	1414	34337	2566			15072														
		STD	0250	1243	3423	2593	0021461	0669	15021														
		STD	0300	1063	3413	2618	0019064	0770	14965														
	200	OBS	0313	1023	34106	2624			14952														
		STD	0400	0826	3403	2649	0016159	0946	14892														
	200	OBS	T0412	0802	34021	2652			14885														
		STD	0500	0654	3404	2674	0013788	1096	14842														
		STD	0600	0527	3406	2692	0012118	1226	14807														
	200	OBS	T0630	0498	34063	2696			14800														
		STD	0700	0458	3416	2708	0010616	1339	14797														
		STD	0800	0412	3428	2722	0009274	1439	14796														
	200	OBS	0826	0403	34301	2725			14797														
		STD	0900	0389	3436	2731	0008498	1528	14804														
		STD	1000	0369	3442	2738	0007901	1610	14813														
	200	OBS	1033	0363	34444	2740			14816														
		STD	1100	0350	3446	2743	0007453	1686	14822														
		STD	1200	0330	3449	2747	0007113	1759	14831														
		STD	1300	0309	3451	2751	0006750	1829	14839														
		STD	1400	0288	3453	2755	0006390	1894	14847														
		STD	1500	0267	3456	2758	0006018	1956	14855														
	200	OBS	T1536	0259	34568	2760			14858														

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEM SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODE STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT PER	SEA	TYPE		AMT		
311	1205	WC	29585N	13900 W		086	99	02	12	195	1968	N13	009		4389	14	26	3	2		1	6	0009
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mbs)	DIRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
						17	S05	159	189	161	8	14											
MESSENGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	1867	3506	2517	0028056	0000	15185														
195		OBS	0000	1867	35060	2517			15185														
195		OBS	0009	1867	35060	2517			15186														
		STD	0010	1867	3506	2517	0028090	0028	15187														
		STD	0020	1867	3506	2517	0028095	0056	15188														
195		OBS	0028	1867	35067	2517			15190														
		STD	0030	1867	3507	2517	0028107	0084	15190														
195		OBS	0046	1866	35069	2518			15192														
		STD	0050	1867	3507	2518	0028168	0141	15193														
195		OBS	0068	1870	35062	2516			15197														
		STD	0075	1869	3507	2517	0028286	0211	15198														
195		OBS	0090	1868	35091	2519			15200														
		STD	0100	1867	3509	2519	0028158	0282	15202														
		STD	0125	1866	3510	2520	0028147	0352	15206														
195		OBS	0138	1865	35106	2521			15207														
		STD	0150	1780	3494	2529	0027365	0421	15183														
195		OBS	T0185	1556	34531	2551			15116														
		STD	0200	1474	3443	2561	0024451	0551	15091														
		STD	0250	1236	3416	2589	0021842	0667	15017														
195		OBS	0273	1145	34090	2601			14989														
		STD	0300	1065	3408	2614	0019465	0770	14965														
195		OBS	T0360	0905	34068	2640			14916														
		STD	0400	0811	3405	2654	0015764	0946	14887														
		STD	0500	0624	3402	2677	0013548	1093	14829														
195		OBS	T0539	0569	34001	2682			14814														
		STD	0600	0519	3406	2693	0011997	1220	14804														
		STD	0700	0454	3417	2709	0010494	1333	14795														
195		OBS	0715	0446	34185	2711			14795														
		STD	0800	0419	3428	2722	0009357	1432	14799														
		STD	0900	0390	3438	2733	0008362	1521	14805														
195		OBS	T0904	0389	34382	2733			14805														
		STD	1000	0363	3442	2738	0007868	1602	14810														
		STD	1100	0339	3445	2743	0007420	1678	14817														
		STD	1200	0317	3448	2748	0006984	1750	14825														
		STD	1300	0297	3452	2752	0006566	1818	14834														
195		OBS	T1382	0283	34544	2756			14842														

TABLE IX.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DIR INDIC	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
31	1205	WC	3014 N	13939 W		122	09	02	13	187	1968	N13	010	4572	13	20	5	2		3	2	0010
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB										
								29	510	047		206	179	8	14							
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t \times 10^3$	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₂ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	$\frac{1}{2}$ C					
		STD	0000	1840	3493	2514	0028333	0000	15176													
187		OBS	0000	1840	34933	2514			15176													
187		OBS	0008	1840	34938	2514			15177													
		STD	0010	1840	3494	2515	0028318	0028	15177													
		STD	0020	1841	3496	2516	0028219	0057	15179													
187		OBS	0027	1841	34962	2516			15181													
		STD	0030	1841	3496	2516	0028245	0085	15181													
187		OBS	0043	1842	34969	2516			15184													
		STD	0050	1842	3497	2516	0028302	0141	15185													
187		OBS	0065	1842	34963	2516			15187													
		STD	0075	1842	3497	2516	0028393	0212	15189													
187		OBS	0084	1840	34969	2517			15190													
		STD	0100	1832	3496	2518	0028277	0283	15190													
		STD	0125	1819	3495	2520	0028158	0354	15190													
187		OBS	0125	1819	34946	2520			15190													
		STD	0150	1595	3454	2542	0026085	0421	15123													
187		OBS	T0165	1481	34350	2553			15087													
		STD	0200	1311	3420	2577	0022854	0544	15035													
187		OBS	0248	1121	34067	2603			14976													
		STD	0250	1115	3407	2604	0020330	0652	14974													
		STD	0300	0980	3405	2626	0018284	0748	14933													
187		OBS	T0330	0908	34033	2637			14912													
		STD	0400	0773	3399	2654	0015668	0918	14871													
		STD	0500	0623	3399	2674	0013757	1065	14829													
187		OBS	0500	0623	33986	2674			14829													
		STD	0600	0540	3406	2691	0012259	1195	14813													
187		OBS	0693	0477	34131	2703			14803													
		STD	0700	0473	3414	2705	0010945	1311	14803													
		STD	0800	0424	3424	2718	0009712	1415	14800													
187		OBS	0850	0403	34280	2723			14800													
		STD	0900	0384	3432	2728	0008736	1507	14801													
		STD	1000	0351	3439	2737	0007914	1590	14805													
		STD	1100	0327	3445	2744	0007267	1666	14812													
		STD	1200	0312	3449	2749	0006867	1737	14823													
		STD	1300	0304	3452	2752	0006618	1804	14837													
187		OBS	T1305	0304	34524	2752			14838													

TABLE X. Observed and interpolated oceanographic data for stations taken by USCGC FANEY at Ocean Station NOVEMBER, 18 February–10 March 1968, prepared from NODC Listing No. 31-1209 RT.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT MILES DIRECTION	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH OF BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1209	RT	3018 N	13958 W		122	09	02	18	200	1968	N14	001	4440	04	28	4	5		X6	6	8	0001
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
					17	S19	125	200	189	7	10												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S CODE						
		STD	0000	1850	3496	2514	0028382	0000	15179														
	200	OBS	0000	1850	34959	2514			15179														
		STD	0010	1852	3496	2513	0028464	0028	15181														
	200	OBS	0013	1853	34962	2513			15182														
		STD	0020	1852	3496	2513	0028490	0057	15183														
		STD	0030	1850	3496	2514	0028476	0085	15184														
	200	OBS	0035	1849	34954	2513			15184														
		STD	0050	1849	3495	2513	0028593	0142	15187														
	200	OBS	0057	1847	34946	2513			15187														
		STD	0075	1836	3492	2514	0028584	0214	15187														
	200	OBS	0087	1830	34913	2515			15187														
		STD	0100	1827	3491	2516	0028500	0285	15188														
	200	OBS	0113	1823	34910	2516			15189														
		STD	0125	1744	3477	2525	0027680	0356	15166														
		STD	0150	1591	3451	2541	0026216	0423	15121														
	200	OBS	0170	1480	34354	2554			15087														
		STD	0200	1330	3420	2573	0023223	0546	15041														
	200	OBS	T0228	1212	34100	2589			15005														
		STD	0250	1161	3410	2598	0020901	0657	14991														
		STD	0300	1047	3410	2619	0019010	0757	14958														
	200	OBS	0340	0959	34084	2633			14933														
		STD	0400	0831	3405	2650	0016087	0932	14894														
	200	OBS	T0449	0730	34000	2661			14863														

REFERENCE CITY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH OF BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		MOON STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
						10"	1"	MO	DAY	HR.1/10													
31	1209	RT	2958 N	13946 W	086	99	02	19	198	1968	N14	002	4206	15	25	4	4		X1	4	1		0002
<div><div>WATER</div><div>WIND</div><div>BARO- METER (mb)</div><div>AIR TEMP. °C</div><div>VIS. CODE</div><div>NO. OBS. DEPTHS</div><div>SPECIAL OBSERVATIONS</div></div> <div><div>COLOR CODE</div><div>TRANS. (m)</div><div>DIR.</div><div>SPEED OR FORCE</div><div>DRY BULB</div><div>WET BULB</div></div> <div><div>19</div><div>S10</div><div>179</div><div>200</div><div>189</div><div>7</div><div>14</div></div>																							
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t 70	Σ Δ ρ OBS. M. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	CHLOROPHYLL a						
		STD	0000	1856	3493	2510	0028722	0000	15160														
	198	OBS	0000	1856	34932	2510			15180														
		STD	0010	1854	3492	2510	0028766	0029	15181														
	198	OBS	0010	1854	34924	2510			15181														
		STD	0020	1855	3494	2511	0028695	0057	15183														
	198	OBS	0029	1855	34948	2511			15185														
		STD	0030	1855	3495	2512	0028671	0086	15185														
	198	OBS	0049	1856	34982	2514			15189														
		STD	0050	1856	3498	2514	0028542	0143	15189														
	198	OBS	0073	1856	34972	2513			15193														
		STD	0075	1855	3497	2513	0028675	0215	15193														
	198	OBS	0097	1844	34940	2514			15193														
		STD	0100	1826	3491	2516	0026502	0266	15188														
		STD	0125	1685	3470	2534	0026842	0356	15148														
	198	OBS	0147	1569	34528	2547			15114														
		STD	0150	1554	3451	2549	0025416	0421	15109														
	198	OBS	0198	1332	34219	2574			15042														
		STD	0200	1324	3422	2576	0022982	0542	15040														
		STD	0250	1139	3416	2607	0020073	0649	14984														
	198	OBS	0295	1004	34107	2627			14942														
		STD	0300	0993	3410	2626	0016101	0745	14935														
	198	OBS	0391	0814	34032	2651			14886														
		STD	0400	0795	3403	2654	0015674	0914	14880														
		STD	0500	0616	3405	2680	0013220	1058	14827														
	198	OBS	T0591	0501	34058	2695			14795														
		STD	0600	0496	3407	2696	0011641	1183	14795														
		STD	0700	0445	3418	2711	0010313	1292	14792														
	198	OBS	0783	0412	34258	2721			14793														
		STD	0800	0408	3428	2723	0009228	1390	14794														
		STD	0900	0386	3437	2732	0008389	1478	14803														
	198	OBS	T0979	0368	34432	2739			14809														
		STD	1000	0363	3444	2740	0007706	1559	14811														
		STD	1100	0342	3446	2744	0007352	1634	14819														
		STD	1200	0321	3449	2748	0007001	1706	14827														
		STD	1300	0300	3451	2752	0006638	1774	14835														
		STD	1400	0280	3454	2755	0006289	1838	14843														
	198	OBS	T1469	0266	34552	2758			14849														

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TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MAX. INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311	1209	RT	2958 N	13958 W		086	99	02	20	196	1968	N14	003	4390	14	27	4	5		X5	6	6	0003
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																	
								21	520	179	222	211	7	14									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -S µg - ml/l	pH	S CC						
		STD	0000	1873	3498	2509	0028766	0000	15186														
196		OBS	0000	1873	34982	2509			15186														
196		OBS	0008	1875	34986	2509			15188														
		STD	0010	1875	3499	2510	0028778	0029	15188														
		STD	0020	1872	3500	2511	0028677	0057	15189														
		STD	0030	1869	3501	2513	0028576	0086	15190														
196		OBS	0031	1869	35012	2513			15190														
196		OBS	0049	1871	35034	2514			15194														
		STD	0050	1871	3503	2514	0028511	0143	15194														
		STD	0075	1871	3504	2514	0028566	0215	15198														
196		OBS	0075	1871	35038	2514			15198														
196		OBS	0097	1866	35026	2515			15200														
		STD	0100	1854	3500	2516	0028518	0286	15197														
		STD	0125	1759	3482	2525	0027664	0356	15171														
196		OBS	0145	1682	34686	2533			15150														
		STD	0150	1664	3466	2536	0026738	0424	15145														
196		OBS	T0195	1491	34430	2557			15096														
		STD	0200	1461	3441	2562	0024326	0552	15087														
		STD	0250	1197	3420	2599	0020824	0665	15004														
196		OBS	0286	1055	34110	2618			14959														
		STD	0300	1026	3410	2623	0018653	0763	14951														
196		OBS	T0377	0871	34062	2645			14906														
		STD	0400	0815	3406	2653	0015794	0936	14888														
		STD	0500	0614	3403	2679	0013283	1081	14826														
196		OBS	T0547	0545	34023	2687			14805														
		STD	0600	0504	3408	2696	0011664	1206	14798														
		STD	0700	0443	3418	2711	0010289	1315	14791														
196		OBS	0738	0425	34217	2716			14790														
		STD	0800	0409	3428	2723	0009239	1413	14795														
		STD	0900	0384	3437	2732	0008366	1501	14802														
196		OBS	T0919	0379	34388	2734			14803														
		STD	1000	0360	3445	2741	0007575	1581	14809														
		STD	1100	0338	3450	2747	0007025	1654	14818														
		STD	1200	0318	3454	2752	0006567	1722	14826														
		STD	1300	0299	3456	2756	0006265	1786	14835														
		STD	1400	0282	3456	2757	0006129	1848	14845														
196		OBS	T1430	0277	34561	2758			14848														

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH IN METERS	MARSON SQUARE		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
311209	RT		2900 N	13953 W		086	99	02	21	1968	N14	004	4755	14	28	3	4		X1	3	5		0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)		DRY BULB	WET BULB										
								21	S14	220	233	222	8					14					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH Iml	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta O$ OYN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S C C					
		STD	0000	2004	3522	2494	0030267		0000	15225													
197		OBS	0000	2004	35219	2494				15225													
197		OBS	0009	2004	35219	2494				15226													
		STD	0010	2002	3522	2494	0030253		0030	15226													
		STD	0020	1987	3522	2498	0029934		0060	15224													
197		OBS	0028	1979	35214	2500				15223													
		STD	0030	1979	3522	2500	0029740		0090	15223													
197		OBS	0046	1976	35221	2501				15225													
		STD	0050	1976	3522	2501	0029736		0150	15225													
197		OBS	0068	1967	35205	2502				15226													
		STD	0075	1965	3520	2502	0029724		0224	15226													
197		OBS	0091	1935	35176	2508				15220													
		STD	0100	1873	3507	2516	0028468		0297	15203													
		STD	0125	1716	3482	2536	0026674		0366	15159													
197		OBS	0138	1642	34707	2544				15137													
		STD	0150	1583	3462	2551	0025241		0431	15120													
197		OBS	0186	1419	34388	2569				15071													
		STD	0200	1359	3433	2577	0022843		0551	15053													
		STD	0250	1173	3418	2602	0020532		0659	14996													
197		OBS	0276	1093	34130	2613				14971													
		STD	0300	1041	3411	2621	0018834		0758	14956													
197		OBS	T0368	0899	34069	2641				14915													
		STD	0400	0822	3406	2653	0015863		0931	14891													
		STD	0500	0630	3404	2678	0013450		1078	14832													
197		OBS	T0545	0567	34030	2685				14814													
		STD	0600	0530	3409	2694	0011911		1204	14809													
		STD	0700	0473	3419	2709	0010574		1317	14803													
197		OBS	0731	0459	34214	2712				14803													
		STD	0800	0430	3428	2720	0009487		1417	14803													
		STD	0900	0399	3437	2731	0008542		1507	14808													
197		OBS	T0914	0396	34379	2732				14809													
197		OBS	13790	0294	34546	2755																	

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
31	209	RT	2826 N	14003 W	087	80	02	22	196	1968	N14	005	4750	19	29	4	4		X1	6	6	0005	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS		SPECIAL OBSERVATIONS											
		17	512	207	206	194	8	14															
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C						
		STD	0000	1960	3514	2499	0029779	0000	15212														
196		OBS	0000	1960	35135	2499			15212														
		STD	0010	1961	3514	2499	0029795	0030	15214														
196		OBS	0015	1961	35145	2499			15215														
		STD	0020	1956	3515	2501	0029677	0060	15214														
		STD	0030	1947	3514	2503	0029497	0089	15213														
196		OBS	0039	1941	35144	2504			15213														
		STD	0050	1940	3516	2506	0029278	0148	15215														
196		OBS	0064	1935	35164	2508			15216														
		STD	0075	1926	3516	2509	0029032	0221	15215														
196		OBS	0098	1906	35142	2513			15213														
		STD	0100	1892	3511	2514	0028638	0293	15209														
		STD	0125	1723	3478	2531	0027125	0363	15160														
196		OBS	0128	1704	34750	2533			15155														
		STD	0150	1563	3455	2550	0025318	0428	15113														
196		OBS	0192	1345	34294	2577			15046														
		STD	0200	1318	3428	2582	0022404	0547	15038														
		STD	0250	1162	3419	2605	0020259	0654	14992														
196		OBS	0256	1145	34186	2608			14987														
		STD	0300	1043	3413	2622	0018721	0752	14957														
196		OBS	0384	0862	34054	2646			14903														
		STD	0400	0827	3405	2651	0016042	0925	14893														
		STD	0500	0642	3401	2674	0013855	1075	14837														
196		OBS	T0516	0618	34000	2676			14829														
		STD	0600	0549	3409	2692	0012150	1205	14817														
		STD	0700	0481	3419	2708	0010671	1319	14807														
196		OBS	T0770	0443	34252	2717			14803														
		STD	0800	0434	3428	2720	0009535	1420	14805														
		STD	0900	0404	3436	2730	0008675	1511	14810														
		STD	1000	0376	3442	2737	0007984	1534	14816														
196		OBS	1030	0368	34440	2740			14818														
		STD	1100	0350	3447	2744	0007386	1671	14822														
		STD	1200	0327	3451	2749	0006894	1743	14830														
196		OBS	T1283	0310	34523	2752			14837														
196		OBS	19360	0212	34612	2767																	

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE + 1/10	LONGITUDE - 1/10	MOON 1/10	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS					TIME	AMT	
																DIR.	HGT	PER	SEA				
31	209	RT	29555N	14003 W		087	90	02	23	197	1968	N14	006	4755	19	30	4	5		X1	6	7	0006
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	ORY BULB	WET BULB																		
						17	16	193	194					183	7	14							
MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	SCT						
		STD	0000	1874	3495	2507	0029015	0000	15186														
197		OBS	0000	1874	34951	2507			15186														
		STD	0010	1874	3495	2507	0029056	0029	15187														
197		OBS	0015	1874	34947	2507			15188														
		STD	0020	1872	3494	2507	0029095	0058	15188														
		STD	0030	1869	3494	2507	0029096	0087	15189														
197		OBS	0040	1866	34932	2507			15190														
		STD	0050	1847	3491	2511	0028835	0145	15186														
197		OBS	0064	1828	34885	2513			15182														
		STD	0075	1827	3490	2514	0028547	0217	15184														
197		OBS	0099	1825	34920	2517			15187														
		STD	0100	1820	3491	2517	0028360	0288	15186														
		STD	0125	1692	3466	2529	0027291	0368	15149														
197		OBS	0129	1670	34615	2531			15143														
		STD	0150	1515	3434	2545	0025824	0424	15095														
197		OBS	0194	1261	33984	2570			15015														
		STD	0200	1240	3398	2574	0023085	0546	15008														
		STD	0250	1084	3398	2603	0020406	0655	14962														
197		OBS	0258	1062	33982	2607			14955														
		STD	0300	0976	3400	2623	0018557	0752	14931														
197		OBS	0383	0816	34021	2650			14885														
		STD	0400	0781	3401	2655	0015637	0923	14875														
		STD	0500	0607	3399	2677	0013517	1069	14824														
197		OBS	0503	0596	33989	2679			14819														
		STD	0600	0516	3408	2695	0011811	1196	14803														
		STD	0700	0448	3417	2710	0010423	1307	14791														
197		OBS	0749	0422	34213	2716			14791														
		STD	0800	0411	3427	2722	0009337	1416	14795														
		STD	0900	0388	3437	2732	0009413	1494	14804														
		STD	1000	0366	3444	2740	0007718	1575	14812														
197		OBS	1008	0364	34443	2741			14812														
		STD	1100	0341	3448	2746	0007207	1650	14819														
		STD	1200	0318	3451	2750	0006789	1720	14826														
197		OBS	1246	0308	34520	2752			14830														
		STD	1300	0297	3453	2753	0006463	1786	14834														
		STD	1400	0278	3456	2758	0006092	1849	14843														
		STD	1500	0262	3457	2760	0005879	1909	14853														
		STD	1750	0228	3460	2765	0005385	2040	14881														
197		OBS	1876	0216	34605	2766			14897														

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE + 1/10	LONGITUDE + 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1239	RT	2959 N	14003 W		087	70	02	24	196	1968	N14	007	4000	15	28	4	4		X1	6	6	0007
						WATER		WIND		BARO- METER (mbars)	AIR TEMP, °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								2"	512		176	206					194	7	12				
MESSNGR TIME HR 1/10	CASST OF NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CLO						
		STD	0000	2010	3501	2476	0031947	0000	15224														
196		OBS	0000	2010	35008	2476			15224														
		STD	0010	1891	3502	2508	0028987	0030	15193														
196		OBS	0010	1891	35016	2508			15193														
		STD	0020	1889	3502	2508	0028944	0059	15194														
		STD	0030	1887	3502	2509	0028916	0086	15195														
196		OBS	0030	1887	35022	2509			15195														
		STD	0050	1881	3503	2511	0028510	0140	15197														
		STD	0075	1873	3503	2513	0028685	0218	15198														
		STD	0100	1865	3503	2515	0028557	0290	15200														
196		OBS	0100	1865	35031	2515			15200														
		STD	0125	1678	3469	2525	0026757	0359	15146														
		STD	0150	1538	3446	2549	0025438	0424	15104														
196		OBS	0152	1529	34442	2550			15101														
		STD	0200	1412	3432	2566	0023979	0547	15070														
196		OBS	0204	1400	34309	2567			15067														
		STD	0250	1208	3420	2597	0021027	0660	15008														
		STD	0300	1037	3411	2621	0018766	0759	14955														
196		OBS	0304	1025	34103	2623			14951														
		STD	0400	0812	3403	2652	0015949	0933	14887														
196		OBS	0403	0806	34027	2652			14885														
		STD	0500	0635	3405	2678	0013480	1080	14834														
		STD	0600	0509	3406	2694	0011851	1207	14800														
196		OBS	T0611	0498	34065	2696			14797														
		STD	0700	0456	3416	2708	0010603	1319	14796														
		STD	0800	0410	3427	2721	0009356	1419	14795														
196		OBS	0801	0409	34266	2722			14795														
		STD	0900	0389	3436	2731	0008498	1508	14804														
196		OBS	T0994	0369	34428	2738			14812														
		STD	1000	0368	3443	2739	0007816	1590	14813														
		STD	1100	0347	3446	2743	0007454	1666	14821														
		STD	1200	0326	3448	2747	0007031	1739	14829														
		STD	1300	0305	3451	2751	0006704	1808	14837														
		STD	1400	0283	3454	2755	0006309	1873	14845														
196		OBS	T1476	0267	34557	2758			14851														

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
311	209	RT	2959 N	14001 W	087	90	02	26	199	1968	N14	008	4290	19	16			5	X1	6	3		0008
		WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				27	S23	085	194	172	8	14													
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-×10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	CC						
		STD	0000	1860	3490	2506	0029072	0000	15181														
199		OBS	0000	1860	34897	2506			15181														
		STD	0010	1860	3490	2506	0029098	0029	15183														
199		OBS	0015	1860	34899	2506			15183														
		STD	0020	1859	3489	2506	0029156	0058	15184														
		STD	0030	1858	3488	2505	0029258	0087	15185														
199		OBS	0039	1856	34863	2505			15186														
		STD	0050	1814	3480	2510	0028851	0146	15175														
199		OBS	0063	1780	34747	2515			15166														
		STD	0075	1779	3476	2516	0028430	0217	15166														
199		OBS	0097	1776	34770	2517			15171														
		STD	0100	1774	3477	2518	0028295	0288	15171														
		STD	0125	1727	3470	2524	0027796	0358	15160														
199		OBS	0126	1724	34692	2524			15160														
		STD	0150	1569	3442	2539	0026394	0426	15112														
199		OBS	0190	1344	34102	2563			15043														
		STD	0200	1295	3407	2570	0023497	0551	15028														
		STD	0250	1086	3398	2603	0020455	0661	14963														
199		OBS	T0253	1075	33972	2604			14959														
		STD	0300	0975	3399	2623	0018615	0758	14931														
199		OBS	0382	0811	34006	2650			14883														
		STD	0400	0772	3401	2656	0015528	0929	14871														
		STD	0500	0595	3401	2680	0013190	1072	14818														
199		OBS	T0511	0579	34014	2682			14813														
		STD	0600	0520	3411	2697	0011638	1197	14805														
		STD	0700	0465	3421	2711	0010329	1306	14800														
199		OBS	T0779	0429	34270	2720			14799														
		STD	0800	0423	3430	2723	0009256	1404	14801														
		STD	0900	0396	3437	2731	0008506	1493	14807														
		STD	1000	0370	3443	2739	0007839	1575	14813														
199		OBS	1033	0362	34448	2741			14816														
		STD	1100	0347	3447	2744	0007351	1651	14821														
		STD	1200	0325	3450	2748	0006944	1722	14829														
199		OBS	T1292	0306	34523	2752			14836														
		STD	1300	0304	3452	2752	0006589	1790	14837														
		STD	1400	0286	3454	2755	0006352	1855	14846														
		STD	1500	0269	3455	2757	0006122	1917	14856														
		STD	1750	0232	3458	2763	0005594	2064	14882														
199		OBS	T1944	0211	34602	2767			14907														

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
31	1209	RT	29577N	140058W	087	90	02	27	201	1968	N14	000					0000
		WATER COLOR CODE	WIND TRANS. (m/s)		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
MESSNGR TIME HR 1/10	CASST NO.		DIR.	SPEED OR FORCE		DRY BULB	WET BULB				PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	PH	S C C
		STD	0000	1914	3508	2506		0029069	0000	15198							
201		OBS	0000	1914	35077	2506				15196							
201		OBS	0009	1913	35080	2507				15200							
		STD	0010	1913	3508	2507		0029057	0029	15200							
		STD	0020	1911	3508	2507		0029029	0058	15201							
201		OBS	0028	1910	35083	2508				15202							
		STD	0030	1910	3508	2508		0029053	0087	15202							
201		OBS	0047	1910	35071	2507				15205							
		STD	0050	1899	3506	2509		0028999	0145	15202							
201		OBS	0070	1847	34987	2516				15190							
		STD	0075	1845	3498	2517		0028337	0217	15190							
201		OBS	0094	1838	34972	2517				15191							
		STD	0100	1819	3494	2520		0028119	0287	15186							
		STD	0125	1731	3480	2531		0027163	0357	15163							
201		OBS	0142	1664	34692	2538				15144							
		STD	0150	1626	3463	2542		0026111	0423	15133							
201		OBS	0195	1417	34337	2566				15071							
		STD	0200	1390	3432	2570		0023535	0547	15063							
		STD	0250	1151	3419	2607		0020061	0656	14988							
201		OBS	0285	1022	34117	2625				14947							
		STD	0300	0990	3410	2629		0018052	0752	14938							
201		OBS	0379	0833	34021	2648				14891							
		STD	0400	0788	3402	2654		0015659	0920	14877							
		STD	0500	0611	3402	2679		0013332	1065	14824							
201		OBS	0558	0537	34022	2688				14804							
		STD	0600	0513	3406	2694		0011923	1101	14802							
		STD	0700	0463	3416	2707		0010676	1304	14799							
201		OBS	0756	0438	34212	2714				14798							
		STD	0800	0421	3426	2720		0009528	1405	14799							
		STD	0900	0387	3436	2731		0008475	1495	14805							
201		OBS	0944	0375	34401	2736				14806							
201		OBS	14270	0283	34551	2756											

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PORT INDICATOR	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311	209	RT	3010 N	13953 W		122	09	02	28	061	1968	N14	010	4270	17	20		<	X1	0	5	0010
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								20 <td>511</td> <td>175</td> <td>194</td> <td>189</td> <td>7</td> <td>14</td> <th colspan="6"></th>	511		175	194					189	7	14			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH					
		STD	0000	1843	3475	2499	0029734		0000	15174												
	061	OBS	0000	1843	34750	2499				15174												
		STD	0010	1837	3475	2501	0029640		0030	15174												
	061	OBS	0010	1837	34748	2501				15174												
		STD	0020	1833	3475	2502	0029564		0059	15175												
		STD	0030	1829	3475	2503	0029502		0059	15175												
	061	OBS	0035	1827	34753	2504				15176												
		STD	0050	1796	3476	2512	0028733		0147	15167												
	061	OBS	0055	1789	34760	2513				15168												
		STD	0075	1791	3482	2518	0028248		0118	15172												
	061	OBS	0085	1792	34832	2518				15174												
		STD	0100	1786	3482	2519	0028196		0189	15175												
	061	OBS	0109	1771	34816	2522				15172												
		STD	0125	1689	3465	2529	0027296		0356	15148												
		STD	0150	1556	3442	2542	0026114		0425	15109												
	061	OBS	0164	1479	34305	2550				15085												
		STD	0200	1259	3404	2575	0023031		0548	15016												
	061	OBS	0218	1168	33947	2585				14996												
		STD	0250	1080	3377	2603	0020425		0656	14960												
		STD	0300	0953	3400	2627	0018183		0753	14923												
	061	OBS	0328	0889	34009	2638				14904												
		STD	0400	0745	3399	2658	0015264		0770	14860												
	061	OBS	T0445	0670	33989	2668				14838												
		STD	0500	0608	3403	2680	0013234		1063	14823												
		STD	0600	0516	3410	2697	0011663		1187	14803												
	061	OBS	T0653	0478	34142	2704				14797												
		STD	0700	0458	3419	2710	0010393		1297	14797												
		STD	0800	0420	3429	2722	0009294		1396	14799												
	061	OBS	0874	0396	34346	2729				14802												
		STD	0900	0390	3436	2731	0008510		1485	14804												
		STD	1000	0368	3442	2738	0007890		1567	14812												
	061	OBS	T1096	0347	34471	2744				14820												
		STD	1100	0346	3447	2744	0007325		1643	14821												
		STD	1200	0326	3449	2748	0007030		1715	14829												
		STD	1300	0306	3451	2751	0006730		1784	14837												
		STD	1400	0287	3453	2754	0006430		1849	14846												
		STD	1500	0269	3455	2757	0006144		1912	14856												
	061	OBS	T1659	0243	34574	2762				14872												

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	ORBIT INDEX	MARS DEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
311	239	RT	30°13' N	139°53' W		122	09	02	29	190	1968	N14	011	4755	15	26			3	X5	3	6		0011
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	mmHg	mbars	DRY BULB	WET BULB															
		26	518	179	669	066	7	14																
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C C							
		STD	0000	1846	3479	2501	0029544	0000	15176															
190		OBS	0000	1846	34786	2501			15176															
		STD	0010	1849	3478	2500	0029685	0030	15178															
190		OBS	0012	1850	34781	2500			15179															
		STD	0020	1846	3476	2499	0029847	0059	15179															
		STD	0030	1842	3474	2499	0029883	0089	15179															
190		OBS	0035	1838	34725	2499			15178															
		STD	0050	1819	3476	2506	0029259	0148	15176															
190		OBS	0057	1812	34769	2508			15175															
		STD	0075	1806	3480	2512	0028745	0221	15177															
190		OBS	0091	1801	34821	2515			15178															
		STD	0100	1798	3483	2516	0028452	0292	15179															
190		OBS	0115	1794	34838	2518			15180															
		STD	0125	1728	3470	2524	0027821	0363	15161															
		STD	0150	1570	3442	2539	0026416	0431	15113															
190		OBS	0174	1426	34203	2554			15069															
		STD	0200	1269	3407	2575	0023001	0554	15019															
190		OBS	T0233	1106	33949	2597			14967															
		STD	0250	1064	3397	2606	0020149	0662	14955															
		STD	0300	0949	3400	2628	0018118	0758	14921															
190		OBS	0348	0853	34019	2644			14894															
		STD	0400	0769	3399	2655	0015610	0926	14870															
190		OBS	T0467	0673	33978	2667			14843															
		STD	0500	0633	3401	2675	0013712	1073	14833															
		STD	0600	0531	3411	2696	0011775	1200	14810															
190		OBS	0690	0462	34184	2709			14797															
		STD	0700	0457	3419	2710	0010382	1311	14797															
		STD	0800	0415	3427	2721	0009384	1410	14797															
190		OBS	0895	0384	34338	2730			14801															
		STD	0900	0383	3434	2730	0008576	1500	14801															
		STD	1000	0360	3441	2738	0007870	1582	14809															
190		OBS	T1078	0349	34459	2743			14818															
190		OBS	15000	0249	34572	2761																		

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
31	1209	RT	29565N	14006 W		087	90	03	01	189	1968	N14	012	4572	15	32	5	5		X1	4	3	0012
		WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				07	512	254	180	161	7	14													
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	S C C					
		STD	0000	1885	3498	2506	0029106		0000	15189													
189		OBS	0000	1885	34975	2506				15189													
		STD	0010	1888	3497	2505	0029270		0029	15191													
189		OBS	0010	1888	34967	2505				15191													
		STD	0020	1882	3496	2506	0029189		0058	15191													
		STD	0030	1874	3496	2507	0029066		0038	15191													
189		OBS	0034	1870	34956	2508				15190													
		STD	0050	1849	3491	2510	0028883		0145	15186													
189		OBS	0053	1846	34904	2510				15186													
		STD	0075	1829	3490	2514	0028563		0217	15184													
189		OBS	0082	1821	34893	2516				15183													
189		OBS	0096	1800	34854	2518				15179													
		STD	0100	1777	3481	2520	0028075		0238	15172													
		STD	0125	1642	3456	2533	0026898		0357	15133													
		STD	0150	1519	3435	2545	0025836		0423	15096													
189		OBS	0158	1482	34297	2549				15085													
		STD	0200	1308	3407	2568	0023747		0547	15032													
189		OBS	T0212	1263	34027	2573				15019													
		STD	0250	1140	3405	2598	0020891		0658	14933													
		STD	0300	1000	3406	2624	0018512		0757	14941													
189		OBS	0314	0965	34063	2630				14930													
		STD	0400	0802	3401	2651	0015947		0929	14883													
189		OBS	T0418	0771	34005	2656				14874													
		STD	0500	0640	3402	2675	0013732		1077	14836													
		STD	0600	0519	3407	2694	0011922		1406	14804													
189		OBS	T0618	0502	34082	2697				14800													
		STD	0700	0454	3418	2710	0010420		1317	14795													
		STD	0800	0403	3428	2723	0009228		1416	14794													
189		OBS	0822	0400	34303	2725				14795													
		STD	0900	0377	3437	2733	0008284		1503	14799													
		STD	1000	0362	3443	2739	0007746		1583	14810													
189		OBS	T1023	0360	34445	2741				14813													
189		OBS	15270	0262	34564	2759																	

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311200	RT	30038N	139522W		122	39	03 02	186	1968	N14	013	4755	16	18		2	X0	0	0012
WATER				WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB													
		18	514	240	194	183	7	14											
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	Σ C		
		STD	0000	1866	3490	2505	0029193	0000	15183										
186		OBS	0000	1866	34900	2505			15183										
		STD	0010	1866	3490	2505	0029264	0029	15184										
186		OBS	0010	1866	34895	2505			15184										
		STD	0020	1865	3490	2505	0029271	0058	15186										
		STD	0030	1864	3490	2505	0029269	0088	15187										
186		OBS	0034	1864	34898	2505			15188										
		STD	0050	1864	34899	2505	0029373	0146	15190										
186		OBS	0054	1861	34890	2505			15190										
		STD	0075	1822	3489	2514	0028542	0219	15182										
186		OBS	0084	1807	34858	2514			15179										
		STD	0100	1794	3482	2517	0028400	0290	15177										
186		OBS	0109	1772	34773	2519			15172										
		STD	0125	1653	3455	2530	0027215	0359	15136										
		STD	0150	1490	3427	2545	0027510	0426	15086										
186		OBS	0163	1416	34164	2553			15063										
		STD	0200	1254	3400	2573	0025237	0548	15013										
186		OBS	0218	1186	33954	2582			14992										
		STD	0250	1101	3399	2601	0020643	0658	14968										
		STD	0300	0980	3473	2625	0018402	0756	14933										
186		OBS	0326	0923	34041	2635			14917										
		STD	0400	0784	3399	2653	0015829	0927	14875										
186		OBS	T0438	0721	33986	2661			14857										
		STD	0500	0630	3403	2677	0013524	1074	14832										
		STD	0600	0516	3410	2697	0011663	1200	14873										
186		OBS	T0647	0477	34137	2704			14796										
		STD	0700	0462	3419	2710	0010441	1310	14799										
		STD	0800	0433	3428	2720	0009523	1410	14805										
186		OBS	0871	0412	34332	2726			14808										
		STD	0900	0403	3435	2729	0008737	1501	14810										
		STD	1000	0374	3442	2737	0007960	1585	14815										
186		OBS	T1084	0351	34464	2742			14820										
		STD	1100	0347	3447	2744	0007373	1661	14821										
		STD	1200	0323	3449	2748	0007017	1733	14828										
		STD	1300	0301	3451	2751	0006686	1802	14835										
		STD	1400	0283	3453	2754	0006390	1867	14845										
		STD	1500	0266	3455	2757	0006109	1930	14854										
186		OBS	T1642	0248	34573	2761			14871										

TABLE X.—Continued

REFERENCE		SNIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NGO- STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311	209	RT	3013 N	13950 W		122	09	03	03	185	1968	N14	014	4207	18	20				X1	3	5	0014
		WATER		WIND		BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
					20	517	237	189	178	8	14												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH							
		STD	0000	1857	3481	2501	0029610	0000	15179														
185		OBS	0000	1857	34813	2501			15179														
		STD	0010	1857	3482	2501	0029629	0030	15181														
185		OBS	0013	1857	34816	2501			15181														
		STD	0020	1856	3481	2501	0029675	0059	15182														
		STD	0030	1850	3481	2502	0029566	0089	15182														
185		OBS	0036	1845	34801	2503			15181														
		STD	0050	1821	3478	2507	0029154	0148	15177														
185		OBS	0058	1811	34770	2509			15175														
		STD	0075	1806	3482	2514	0028602	0221	15177														
185		OBS	0089	1802	34826	2515			15176														
		STD	0100	1787	3479	2516	0028454	0491	15175														
185		OBS	0116	1747	34720	2521			15165														
		STD	0125	1697	3464	2526	0027550	0361	15151														
		STD	0150	1561	3443	2542	0026149	0428	15111														
185		OBS	0173	1436	34261	2556			15073														
		STD	0200	1275	3410	2577	0022895	0551	15022														
185		OBS	T0234	1111	33950	2596			14969														
		STD	0250	1082	3397	2603	0020459	0659	14961														
		STD	0300	0990	3430	2621	0018788	0757	14936														
185		OBS	0358	0878	34022	2641			14905														
		STD	0400	0782	3400	2654	0015726	0930	14875														
185		OBS	T0461	0665	33992	2669			14839														
		STD	0500	0621	3403	2678	0013405	1076	14828														
		STD	0600	0525	3411	2696	0011700	1201	14807														
185		OBS	T0687	0463	34187	2709			14797														
		STD	0700	0459	3420	2711	0010331	1311	14796														
		STD	0800	0428	3430	2722	0009315	1410	14803														
		STD	0900	0398	3437	2731	0008530	1499	14808														
185		OBS	0921	0392	34387	2733			14809														
		STD	1000	0369	3442	2738	0007901	1581	14813														
		STD	1100	0343	3446	2744	0007378	1657	14819														
185		OBS	T1159	0328	34486	2747			14823														
		STD	1200	0318	3447	2749	0006914	1729	14826														
		STD	1300	0296	3451	2752	0006591	1796	14833														
		STD	1400	0277	3453	2755	0006298	1861	14842														
		STD	1500	0259	3455	2758	0006012	1926	14851														
		STD	1750	0226	3459	2765	0005420	2065	14880														
185		OBS	1782	0223	34598	2765			14884														

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' / 10	LONGITUDE ° ' / 10	DATE MO DAY HR, 1/10	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.						CRUISE NO.	STATION NUMBER		DIR.	HGT			PER	SEA	TYPE	AMT					
311209	RT		2953 N	13943 W	086 99 03 04 189 1968					N14 015		4572	09	30	7	3		X1	8	3		0015
		WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	OIR.	SPEED OF FORCE		DRY BULB	WET BULB														
				32	518	264	172	150	8	12												
MESSNGR TIME HR 1/10	CAST NO.	CART TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C					
		STD	0000	1842	3480	2503	0029369	0000	15175													
189		OBS	0000	1842	34797	2503			15175													
		STD	0010	1844	3481	2503	0029392	0029	15177													
189		OBS	0010	1844	34805	2503			15177													
		STD	0020	1844	3480	2503	0029433	0059	15179													
		STD	0030	1844	3480	2503	0029473	0088	15180													
189		OBS	0030	1844	34803	2503			15180													
		STD	0050	1817	3479	2509	0028994	0147	15176													
189		OBS	0050	1817	34790	2509			15176													
		STD	0075	1802	3480	2513	0028651	0219	15175													
189		OBS	0081	1800	34809	2514			15176													
		STD	0100	1802	3483	2516	0028506	0290	15180													
189		OBS	0105	1802	34835	2516			15181													
		STD	0125	1677	3460	2528	0027389	0360	15144													
		STD	0150	1531	3436	2543	0026010	0427	15100													
189		OBS	0150	1531	34361	2543			15100													
		STD	0200	1270	3402	2572	0023357	0550	15019													
189		OBS	T0200	1270	34024	2572			15019													
		STD	0250	1103	3405	2605	0020237	0659	14970													
		STD	0300	0961	3405	2630	0017944	0755	14926													
189		OBS	0303	0953	34052	2631			14924													
		STD	0400	0752	3400	2658	0015290	0921	14863													
189		OBS	T0402	0748	33995	2658			14862													
		STD	0500	0637	3405	2678	0013470	1065	14835													
		STD	0600	0545	3412	2695	0011677	1191	14815													
		STD	0700	0472	3420	2709	0010488	1303	14803													
189		OBS	0744	0447	34242	2716			14801													
		STD	0800	0421	3430	2723	0009232	1402	14800													
189		OBS	T0861	0399	34357	2730			14802													

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DUTY INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
311	209	RT	29498N	139556W		086	99	03	05	186	1968	N14	016	4206	14	28			2	X2	6	8	0016	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								21	S04	264	189	144	8	13										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ CYC, M, x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C							
		STD	0000	1849	3487	2507	0028991	0000	15178															
186		OBS	0000	1849	34872	2507			15178															
186		OBS	0009	1852	34870	2506			15180															
		STD	0010	1852	3487	2506	0029110	0029	15180															
		STD	0020	1852	3468	2507	0029108	0058	15182															
186		OBS	0028	1852	34878	2507			15183															
		STD	0030	1852	3488	2507	0029120	0087	15183															
186		OBS	0047	1851	34877	2507			15186															
		STD	0050	1851	3488	2507	0029175	0146	15186															
186		OBS	0072	1853	34679	2507			15191															
		STD	0075	1848	3487	2507	0029233	0419	15189															
186		OBS	0095	1805	34816	2514			15180															
		STD	0100	1786	3478	2516	0028503	0291	15175															
		STD	0125	1690	3462	2527	0027537	0361	15148															
186		OBS	0145	1612	34499	2535			15126															
		STD	0150	1592	3446	2537	0026602	0428	15121															
186		OBS	T0196	1404	34202	2558			15065															
		STD	0200	1381	3419	2562	0024304	0556	15058															
		STD	0250	1132	3410	2604	0020382	0667	14980															
186		OBS	0287	0990	34050	2625			14935															
		STD	0300	0959	3404	2629	0017985	0763	14926															
186		OBS	T0378	0795	34000	2652			14876															
		STD	0400	0758	3401	2658	0015303	0930	14866															
		STD	0500	0614	3405	2681	0013164	1072	14826															
186		OBS	T0560	0548	34085	2692			14810															
		STD	0600	0523	3412	2697	0011601	1196	14807															
		STD	0700	0465	3421	2711	0010329	1306	14800															
186		OBS	0741	0444	34249	2716			14799															
186		OBS	T1405	0275	34553	2757			14842															

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. NO.					MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA		TYPE	AMT			
31	1209	RT	3003 N	1394 15W	122	09	03	06	193	1968	N14 017	4755	19	31	3	4		X1	6	7		0017	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED DIR FORCE	DRY BULB	WET BULB												
									26	518	220	194	161	8	14								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -S μg - at/l	pH	S C						
		STD	0000	1834	3481	2506	0029092	0000	15172														
193		OBS	0000	1834	34809	2506			15172														
		STD	0010	1836	3481	2506	0029168	0029	15175														
193		OBS	0014	1837	34812	2506			15176														
		STD	0020	1837	3481	2506	0029208	0058	15177														
		STD	0030	1836	3481	2506	0029225	0088	15178														
193		OBS	0037	1834	34811	2506			15179														
		STD	0050	1830	3481	2507	0029157	0146	15180														
193		OBS	0061	1823	34803	2508			15179														
		STD	0075	1811	3480	2511	0028870	0218	15178														
193		OBS	0093	1781	34794	2518			15172														
		STD	0100	1766	3476	2519	0028182	0290	15168														
193		OBS	0122	1700	34645	2526			15151														
		STD	0125	1681	3461	2528	0027406	0359	15146														
		STD	0150	1532	3434	2541	0026184	0426	15100														
193		OBS	0183	1352	34101	2561			15045														
		STD	0200	1263	3406	2576	0022960	0549	15017														
193		OBS	T0244	1067	33978	2606			14955														
		STD	0250	1052	3398	2609	0019871	0656	14951														
		STD	0300	0934	3399	2629	0017951	0751	14916														
193		OBS	0371	0790	34001	2653			14873														
		STD	0400	0741	3400	2660	0015126	0916	14859														
		STD	0500	0601	3400	2679	0013342	1058	14820														
193		OBS	T0501	0600	34003	2679			14820														
		STD	0600	0523	3413	2698	0011527	1183	14807														
		STD	0700	0460	3424	2714	0010047	1291	14799														
193		OBS	T0753	0433	34291	2721			14797														
		STD	0800	0418	3433	2726	0008974	1386	14799														
		STD	0900	0388	3439	2734	0008264	1472	14804														
		STD	1000	0361	3445	2741	0007586	1551	14810														
193		OBS	1009	0359	34453	2741			14811														
		STD	1100	0339	3449	2746	0007110	1625	14818														
		STD	1200	0318	3452	2751	0006715	1694	14826														
193		OBS	T1270	0304	34544	2754			14832														
		STD	1300	0298	3455	2755	0006349	1759	14835														
		STD	1400	0281	3456	2757	0006124	1822	14844														
		STD	1500	0265	3457	2760	0005914	1882	14854														
		STD	1750	0232	3460	2765	0005447	2024	14883														
193		OBS	T1906	0217	34616	2767			14903														

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER.	SEA		TYPE	AMT		
311	1209	RT	2957 N	13944 W		086	99	03	07	185	1968	N14	018	4700	15	30	4	4		X1	3	6	0018		
						WATER		WIND		BARO- METER (mb)	AIR TEMP, °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								29	S12	200	200	178	7	14											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D. OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	Σ C								
		STD	0000	1846	3484	2506	0029123	0000	15176																
185		OBS	0000	1846	34844	2506			15176																
185		OBS	0008	1848	34850	2506			15178																
		STD	0010	1847	3485	2506	0029146	0029	15178																
		STD	0020	1844	3485	2507	0029108	0058	15179																
		STD	0030	1841	3485	2507	0029068	0087	15180																
185		OBS	0031	1841	34850	2507			15180																
185		OBS	0049	1839	34840	2507			15182																
		STD	0050	1838	3484	2507	0029122	0146	15182																
		STD	0075	1813	3486	2515	0028496	0218	15179																
185		OBS	0076	1812	34858	2515			15179																
185		OBS	0098	1805	34858	2517			15181																
		STD	0100	1791	3483	2518	0028257	0289	15177																
		STD	0125	1632	3454	2534	0026822	0357	15130																
185		OBS	0146	1516	34343	2545			15095																
		STD	0150	1498	3431	2546	0025686	0423	15089																
185		OBS	T0196	1303	34071	2569			15030																
		STD	0200	1288	3407	2572	0023355	0546	15026																
		STD	0250	1115	3407	2604	0020315	0655	14974																
185		OBS	0297	0974	34065	2629			14931																
		STD	0300	0966	3406	2630	0017952	0750	14928																
185		OBS	T0391	0757	34000	2657			14864																
		STD	0400	0743	3400	2660	0015139	0916	14860																
		STD	0500	0604	3404	2681	0013092	1057	14822																
185		OBS	0590	0514	34076	2695			14801																
		STD	0600	0509	3409	2697	0011651	1181	14800																
		STD	0700	0466	3420	2710	0010415	1291	14801																
185		OBS	0790	0431	34290	2721			14802																
		STD	0800	0428	3430	2722	0009315	1390	14803																
		STD	0900	0396	3437	2731	0008506	1479	14807																
185		OBS	T0992	0369	34429	2739			14812																
		STD	1000	0367	3443	2739	0007797	1560	14812																
		STD	1100	0340	3446	2744	0007358	1636	14818																
		STD	1200	0317	3448	2748	0006969	1708	14825																
		STD	1300	0296	3451	2752	0006591	1776	14833																
		STD	1400	0277	3454	2756	0006232	1840	14842																
		STD	1500	0262	3457	2759	0005915	1900	14853																
185		OBS	T1513	0260	34568	2760			14854																

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CNN CODE	IO, NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
311209	RT		2952 N	13940 W		086	99	03	08	187	1968	N14	019	3658	18	33	4	4		X1	8	7	0019		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
									33	S13	220	211	194	8	14										
MESSNGR TIME HR 1/10	CAS1 NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S	C						
		STD	0000	1852	3486	2505	0029149		0000	15178															
187		OBS	0000	1852	34860	2505				15178															
		STD	0010	1854	3486	2505	0029223		0029	15180															
187		OBS	0014	1855	34862	2505				15181															
		STD	0020	1855	3486	2505	0029252		0058	15182															
		STD	0030	1854	3487	2505	0029247		0088	15184															
187		OBS	0037	1854	34871	2506				15185															
		STD	0050	1854	3488	2506	0029220		0146	15187															
187		OBS	0059	1854	34884	2507				15189															
		STD	0075	1832	3487	2511	0028852		0219	15185															
187		OBS	0090	1804	34834	2515				15179															
		STD	0100	1784	3480	2518	0028311		0290	15174															
187		OBS	0116	1737	34727	2524				15162															
		STD	0125	1684	3462	2528	0027401		0360	15147															
		STD	0150	1539	3438	2543	0026042		0427	15103															
187		OBS	0174	1403	34190	2557				15061															
		STD	0200	1246	3406	2579	0022640		0548	15011															
187		OBS	T0230	1098	33959	2599				14963															
		STD	0250	1052	3398	2609	0019871		0655	14951															
		STD	0300	0943	3401	2629	0017948		0749	14919															
187		OBS	0344	0852	34023	2645				14893															
		STD	0400	0739	3400	2660	0015104		0914	14858															
187		OBS	T0457	0644	33996	2672				14830															
		STD	0500	0600	3404	2682	0013055		1055	14820															
		STD	0600	0512	3413	2699	0011391		1177	14802															
187		OBS	T0682	0458	34204	2711				14794															
		STD	0700	0452	3422	2713	0010099		1285	14795															
		STD	0800	0421	3430	2723	0009232		1382	14800															
		STD	0900	0391	3437	2732	0008448		1470	14805															
187		OBS	0916	0387	34383	2733				14806															
		STD	1000	0365	3443	2739	0007781		1551	14811															
		STD	1100	0340	3449	2746	0007122		1626	14818															
187		OBS	T1151	0328	34508	2749				14822															
		STD	1200	0317	3452	2750	0006740		1695	14826															
		STD	1300	0297	3453	2753	0006470		1761	14834															
		STD	1400	0278	3454	2756	0006200		1824	14843															
		STD	1500	0262	3456	2759	0005967		1885	14853															
		STD	1750	0231	3459	2764	0005472		2028	14882															
187		OBS	T1768	0229	34596	2765				14884															

TABLE XI. Observed and interpolated oceanographic data for stations taken by USCGC PONT-CHARTRAIN at Ocean Station NOVEMBER, 10-31 March 1968, prepared from NODC Listing No. 31-1249 PW.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	GHEE INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
31	1249	PW	2959 N	13955 W		086	99	03	10	009	1968	N15	001	4114	15	15		2	X1	6	3	0001
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mb)	DRY BULB	WET BULB										
								13	512	261	194	161	7	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SIO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	1850	3480	2501	0029530	0000	15177													
009	OBS	0000	1850	34801	2501				15177													
	STD	0010	1840	3480	2504	0029348	0029		15176													
009	OBS	0010	1840	34798	2504				15176													
	STD	0020	1833	3480	2505	0029222	0059		15175													
009	OBS	0029	1827	34795	2507				15175													
	STD	0030	1826	3479	2507	0029141	0088		15175													
009	OBS	0048	1819	34786	2508				15176													
	STD	0050	1819	3479	2505	0029071	0146		15176													
009	OBS	0072	1819	34787	2505				15180													
	STD	0075	1814	3478	2509	0029079	0219		15179													
009	OBS	0096	1768	34727	2516				15168													
	STD	0100	1754	3470	2517	0028339	0291		15164													
	STD	0125	1654	3452	2527	0027456	0360		15136													
009	OBS	0147	1548	34367	2540				15105													
	STD	0150	1527	3434	2542	0026078	0427		15099													
009	OBS	T0198	1240	34046	2579				15009													
	STD	0200	1234	3405	2580	0022518	0549		15007													
	STD	0250	1093	3406	2608	0019996	0655		14966													
009	OBS	0295	0984	34070	2627				14934													
	STD	0300	0974	3407	2629	0018009	0750		14932													
009	OBS	0392	0806	34013	2651				14883													
	STD	0400	0790	3401	2654	0015740	0919		14878													
	STD	0500	0622	3403	2678	0013455	1065		14829													
009	OBS	T0589	0519	34035	2691				14802													
	STD	0600	0515	3405	2693	0012021	1192		14802													
	STD	0700	0475	3418	2708	0010673	1306		14804													
009	OBS	0781	0445	34259	2717				14806													
	STD	0800	0438	3428	2720	0009582	1407		14807													
	STD	0900	0402	3435	2729	0008725	1498		14809													
009	OBS	T0977	0376	34387	2735				14812													
009	OBS	14550	0272	34551	2757																	

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	ORBIT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT								
311	249	PW	3005 N	13952 W	122	09	03	10	197	1968	N15	002	4846	14	17			3	X1	6	4	0002									
						WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB																			
								18	518	234	228	206	7	14																	
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SC														
		STD	0000	1834	3483	2508	0028939	0000	15173																						
197		OBS	0000	1834	34830	2508			15173																						
197		OBS	0008	1831	34831	2508			15173																						
		STD	0010	1830	3483	2509	0028871	0029	15173																						
		STD	0020	1828	3483	2509	0028857	0058	15174																						
197		OBS	0027	1827	34831	2509			15175																						
		STD	0030	1827	3483	2510	0028859	0087	15176																						
197		OBS	0043	1827	34838	2510			15178																						
		STD	0050	1825	3484	2510	0028857	0144	15178																						
197		OBS	0067	1821	34830	2511			15180																						
		STD	0075	1803	3481	2514	0028602	0216	15176																						
197		OBS	0085	1773	34779	2519			15168																						
		STD	0100	1689	3464	2528	0027290	0286	15144																						
		STD	0125	1577	3447	2541	0026129	0353	15112																						
197		OBS	0127	1569	34459	2542			15110																						
		STD	0150	1516	3440	2549	0025408	0417	15096																						
197		OBS	T0169	1458	34337	2557			15080																						
		STD	0200	1283	3421	2584	0022234	0536	15026																						
		STD	0250	1072	3401	2607	0020015	0642	14958																						
197		OBS	0251	1069	34003	2607			14957																						
		STD	0300	0975	3405	2627	0018173	0737	14932																						
197		OBS	T0329	0922	34065	2637			14917																						
		STD	0400	0785	3406	2658	0015304	0905	14877																						
197		OBS	0491	0649	34061	2677			14839																						
		STD	0500	0641	3407	2679	0013375	1048	14837																						
		STD	0600	0557	3414	2695	0011882	1174	14821																						
197		OBS	0668	0509	34193	2705			14813																						
		STD	0700	0490	3422	2709	0010560	1287	14811																						
		STD	0800	0438	3429	2720	0009508	1387	14807																						
197		OBS	T0858	0411	34332	2727			14806																						
		STD	0900	0393	3436	2731	0008545	1477	14806																						
		STD	1000	0356	3441	2738	0007824	1559	14807																						
		STD	1100	0328	3446	2745	0007204	1634	14813																						
		STD	1200	0307	3449	2749	0006809	1704	14821																						
		STD	1300	0294	3452	2753	0006502	1771	14833																						
197		OBS	T1357	0290	34528	2754			14840																						

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DIR INDETR	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311	249	PW	30027N	139524W		122	09	03	11	179	1968	N15 003	4755	18	29			3	1	5	6	0003
		WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
				29	S20	186	189	172	7	14												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	S C					
		STD	0000	1837	3484	2508	0028931	0000	15174													
179		OBS	0000	1837	34841	2508			15174													
		STD	0010	1836	3484	2508	0028955	0029	15175													
179		OBS	0014	1836	34840	2508			15176													
		STD	0020	1836	3484	2508	0028981	0058	15177													
		STD	0030	1834	3484	2508	0028967	0087	15178													
179		OBS	0037	1832	34835	2509			15178													
		STD	0050	1826	3483	2509	0028946	0145	15179													
179		OBS	0059	1820	34820	2510			15178													
		STD	0075	1803	3482	2515	0028496	0217	15176													
179		OBS	0090	1786	34826	2519			15173													
		STD	0100	1728	3472	2525	0027596	0287	15157													
179		OBS	0118	1629	34550	2535			15128													
		STD	0125	1600	3451	2539	0026337	0354	15120													
		STD	0150	1492	3438	2555	0025049	0416	15086													
179		OBS	0177	1365	34250	2570			15050													
		STD	0200	1225	3413	2589	0021735	0535	15005													
179		OBS	T0234	1059	34010	2610			14951													
		STD	0250	1030	3401	2615	0019263	0638	14943													
		STD	0300	0942	3402	2630	0017858	0731	14919													
179		OBS	0351	0857	34028	2645			14896													
		STD	0400	0779	3404	2657	0015386	0897	14874													
179		OBS	T0459	0696	34062	2671			14852													
		STD	0500	0651	3409	2679	0013392	1041	14841													
		STD	0600	0554	3415	2696	0011799	1167	14819													
		STD	0700	0479	3421	2709	0010529	1278	14806													
179		OBS	T0707	0475	34210	2710			14806													
		STD	0800	0435	3430	2721	0009398	1378	14806													
		STD	0900	0398	3438	2732	0008456	1467	14808													
179		OBS	0938	0386	34401	2735			14809													
		STD	1000	0370	3443	2739	0007839	1549	14813													
		STD	1100	0347	3447	2744	0007351	1625	14821													
179		OBS	T1173	0330	34493	2747			14826													
		STD	1200	0324	3450	2748	0006947	1696	14828													
		STD	1300	0303	3452	2752	0006636	1764	14836													
		STD	1400	0284	3453	2755	0006343	1829	14845													
		STD	1500	0266	3455	2758	0006050	1891	14855													
		STD	1750	0228	3460	2765	0005400	2034	14881													
179		OBS	T1809	0220	34609	2766			14888													

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	CHART INDICATOR	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1249	PW	3000 N	139545W		122	09	03	13	186	1968	N15	004	4389	14	32			6	X1	6	6	0004
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								33	S15	240		161	133	7	14								
MESSENGER TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC						
		STD	0000	1816	3481	2511	0028631	0000	15167														
186		OBS	0000	1816	34814	2511			15167														
186		OBS	0009	1813	34819	2512			15168														
		STD	0010	1813	3482	2512	0028554	0029	15168														
		STD	0020	1812	3482	2512	0028576	0057	15169														
186		OBS	0027	1811	34815	2512			15170														
		STD	0030	1811	3482	2512	0028610	0036	15171														
186		OBS	0046	1812	34815	2512			15174														
		STD	0050	1813	3482	2512	0028707	0143	15175														
186		OBS	0070	1815	34815	2511			15179														
		STD	0075	1810	3481	2512	0028767	0415	15178														
186		OBS	0093	1776	34791	2519			15171														
		STD	0100	1743	3474	2523	0027795	0286	15161														
		STD	0125	1630	3455	2535	0026705	0354	15129														
186		OBS	0142	1556	34444	2544			15108														
		STD	0150	1522	3439	2547	0025608	0419	15098														
186		OBS	0191	1355	34181	2567			15048														
		STD	0200	1315	3416	2573	0023224	0541	15036														
		STD	0250	1119	3406	2603	0020445	0650	14975														
186		OBS	0285	1011	34026	2619			14942														
		STD	0300	0981	3403	2625	0018418	0748	14934														
186		OBS	T0378	0839	34033	2648			14893														
		STD	0400	0806	3404	2653	0015785	0919	14885														
		STD	0500	0672	3409	2676	0013649	1066	14850														
186		OBS	T0570	0593	34123	2689			14830														
		STD	0600	0562	3414	2694	0011946	1194	14823														
		STD	0700	0476	3421	2710	0010462	1306	14805														
186		OBS	0757	0439	34252	2717			14800														
		STD	0800	0426	3429	2722	0009365	1405	14802														
		STD	0900	0396	3437	2731	0008506	1494	14807														
186		OBS	0951	0382	34411	2736			14810														
		STD	1000	0369	3443	2738	0007850	1576	14813														
		STD	1100	0344	3446	2743	0007397	1652	14820														
		STD	1200	0322	3449	2748	0006975	1724	14827														
		STD	1300	0302	3452	2753	0006565	1792	14836														
		STD	1400	0284	3456	2757	0006181	1856	14845														
186		OBS	T1431	0279	34566	2758			14849														

TABLE XI.—Continued

REFERENCE CITY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CHIEF INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
							10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	WGT	PER	SEA		TYPE	AMT	
311249		PW	3001 N	13954 W		122	09	03	14 217	1968	N15	005	4297	15	31			3	X2	6	7	0005
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB										
											29	515			213	161	156	7	14			
MESSAGE TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₂ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiD ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S	C				
		STD	0000	1820	3484	2512	0028572	0000	15169													
217		OBS	0000	1820	34835	2512			15169													
		STD	0010	1815	3483	2513	0028495	0029	15169													
217		OBS	0010	1815	34834	2513			15169													
		STD	0020	1814	3483	2513	0028504	0057	15170													
217		OBS	0029	1813	34833	2513			15171													
		STD	0030	1813	3483	2513	0028521	0086	15172													
217		OBS	0048	1812	34835	2513			15174													
		STD	0050	1814	3484	2513	0028597	0143	15175													
217		OBS	0072	1816	34835	2513			15179													
		STD	0075	1813	3463	2513	0028678	0214	15179													
217		OBS	0095	1775	34608	2521			15171													
		STD	0100	1749	3476	2523	0027788	0285	15163													
		STD	0125	1621	3456	2538	0026434	0353	15127													
217		OBS	0144	1525	34414	2548			15098													
		STD	0150	1491	3437	2553	0025101	0417	15088													
217		OBS	T0195	1275	34103	2577			15021													
		STD	0200	1261	3410	2580	0022600	0536	15017													
		STD	0250	1123	3411	2606	0020141	0643	14977													
217		OBS	0289	1023	34117	2624			14948													
		STD	0300	0994	3410	2628	0018118	0739	14939													
217		OBS	T0386	0801	34035	2654			14880													
		STD	0400	0782	3404	2657	0015430	0907	14875													
		STD	0500	0658	3409	2678	0013457	1051	14844													
217		OBS	T0576	0579	34136	2692			14826													
		STD	0600	0556	3415	2696	0011795	1177	14820													
		STD	0700	0477	3422	2711	0010400	1288	14805													
217		OBS	0765	0438	34264	2718			14801													
		STD	0800	0427	3430	2722	0009303	1387	14802													
		STD	0900	0396	3438	2732	0008432	1475	14807													
217		OBS	T0958	0380	34422	2737			14811													
		STD	1000	0369	3444	2739	0007790	1557	14813													
		STD	1100	0343	3447	2744	0007334	1632	14819													
		STD	1200	0321	3450	2749	0006920	1703	14827													
		STD	1300	0301	3453	2753	0006531	1771	14836													
		STD	1400	0283	3456	2757	0006155	1834	14845													
217		OBS	T1454	0275	34575	2759			14851													

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
311	249	PW	2900 N	14000 W		087	90	03	15	195	1968	N15	006	4389	15	26			2	X1	6	6		0006
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																	
					28	510	224	194	189		7	13												
MESSENGER TIME OF HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	°C							
		STD	0000	1960	3516	2501	0029612	0000	15212															
195		OBS	0000	1960	35158	2501			15212															
195		OBS	0008	1957	35157	2501			15213															
		STD	0010	1957	3516	2501	0029580	0030	15213															
		STD	0020	1957	3516	2501	0029615	0059	15215															
		STD	0030	1957	3516	2501	0029657	0089	15216															
195		OBS	0030	1957	35156	2501			15216															
195		OBS	0046	1957	35156	2501			15219															
		STD	0050	1958	3516	2501	0029740	0148	15220															
195		OBS	0072	1960	35158	2501			15224															
		STD	0075	1947	3514	2503	0029683	0423	15221															
195		OBS	0093	1868	35040	2515			15200															
		STD	0100	1836	3498	2519	0028232	0295	15191															
		STD	0125	1724	3460	2532	0027002	0364	15161															
195		OBS	0139	1665	34707	2539			15144															
		STD	0150	1622	3464	2544	0025949	0430	15132															
195		OBS	T0185	1485	34448	2560			15093															
		STD	0200	1419	3439	2569	0023610	0554	15073															
		STD	0250	1219	3423	2597	0021012	0666	15012															
195		OBS	0279	1116	34150	2610			14980															
		STD	0300	1075	3414	2617	0019198	0766	14969															
		STD	0400	0894	3409	2644	0016753	0946	14919															
		STD	0500	0739	3405	2663	0014926	1104	14875															
195		OBS	0577	0638	34008	2674			14846															
		STD	0600	0610	3404	2680	0013314	1245	14841															
		STD	0700	0507	3418	2704	0011067	1367	14817															
195		OBS	0781	0444	34268	2718			14806															
		STD	0800	0436	3429	2721	0009484	1470	14806															
		STD	0900	0399	3437	2731	0008542	1560	14808															
195		OBS	T0990	0369	34436	2739			14811															
		STD	1000	0366	3444	2740	0007733	1642	14812															
		STD	1100	0337	3446	2744	0007286	1717	14817															
		STD	1200	0312	3449	2749	0006889	1788	14823															
		STD	1300	0292	3451	2752	0006545	1855	14831															
		STD	1400	0276	3454	2756	0006242	1919	14842															
		STD	1500	0265	3456	2759	0005994	1980	14854															
195		OBS	T1528	0262	34566	2759			14858															

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SURF INCH	MARCOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER	
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
311249		PW	2855 N	14004 W		087	80	03	16	192	1968	N15	007	4755	14	01				2	X1	5	6	0007
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)		DRY BULB	WET BULB											
								03	S15	288		178	128	7	14									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	CO ₂						
		STD	0000	1961	3516	2500	0029629		0000	15212														
192		OBS	0000	1961	35159	2500				15212														
		STD	0010	1952	3516	2503	0029463		0030	15212														
192		OBS	0010	1952	35156	2503				15212														
		STD	0020	1951	3516	2503	0029471		0059	15213														
192		OBS	0028	1950	35156	2503				15214														
		STD	0030	1950	3516	2503	0029489		0088	15214														
192		OBS	0047	1952	35157	2503				15218														
		STD	0050	1952	3516	2503	0029599		0148	15218														
192		OBS	0070	1953	35155	2502				15222														
		STD	0075	1917	3510	2507	0029234		0221	15212														
192		OBS	0093	1795	34915	2524				15178														
		STD	0100	1754	3483	2527	0027395		0292	15166														
		STD	0125	1620	3458	2540	0026266		0359	15127														
192		OBS	0141	1544	34454	2547				15104														
		STD	0150	1508	3441	2552	0025166		0423	15094														
192		OBS	T0189	1361	34270	2572				15051														
		STD	0200	1320	3425	2579	0022663		0543	15039														
		STD	0250	1152	3417	2605	0020226		0650	14988														
192		OBS	0281	1063	34135	2619				14962														
		STD	0300	1021	3412	2625	0018422		0747	14949														
192		OBS	T0369	0877	34060	2644				14907														
		STD	0400	0812	3406	2654	0015764		0918	14887														
		STD	0500	0640	3404	2676	0013591		1064	14836														
192		OBS	T0562	0561	34029	2686				14814														
		STD	0600	0534	3408	2693	0012035		1193	14810														
		STD	0700	0473	3420	2709	0010500		1305	14804														
192		OBS	0739	0453	34238	2715				14802														
		STD	0800	0432	3429	2721	0009437		1405	14804														
		STD	0900	0400	3437	2731	0008554		1495	14809														
192		OBS	T0932	0390	34395	2734				14810														
		STD	1000	0371	3442	2737	0007954		1577	14814														
		STD	1100	0345	3445	2742	0007497		1655	14820														
		STD	1200	0322	3448	2747	0007064		1727	14827														
		STD	1300	0303	3451	2751	0006680		1796	14836														
		STD	1400	0286	3454	2755	0006315		1861	14846														
192		OBS	T1423	0283	34548	2756				14849														

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SUN- TIME INDICATOR	MARSON SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10°	1°	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	1249	PW	2900 N	14000 W		087	90	03	17 212	1968	N15	008	4755	15	05			3	X1	6	5	0008
		WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
					06		S20	315			189	183	7	14								
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu\text{g} - \text{at}/l$	TOTAL-P $\mu\text{g} - \text{at}/l$	NO ₂ -N $\mu\text{g} - \text{at}/l$	NO ₃ -N $\mu\text{g} - \text{at}/l$	SiO ₂ -Si $\mu\text{g} - \text{at}/l$	pH	S CD					
		STD	0000	1969	3518	2500	0029697	0000	15215													
	212	OBS	0000	1969	35177	2500			15215													
	212	OBS	0009	1958	35178	2503			15213													
		STD	0010	1958	3518	2503	0029450	0030	15213													
		STD	0020	1957	3518	2503	0029470	0059	15215													
		STD	0030	1956	3518	2503	0029490	0089	15216													
	212	OBS	0031	1956	35176	2503			15216													
	212	OBS	0049	1955	35173	2503			15219													
		STD	0050	1955	3517	2503	0029557	0148	15219													
	212	OBS	0074	1957	35175	2503			15224													
		STD	0075	1954	3517	2503	0029639	0222	15223													
	212	OBS	0096	1880	35064	2514			15204													
		STD	0100	1860	3503	2516	0028444	0294	15199													
		STD	0125	1736	3481	2530	0027205	0364	15164													
	212	OBS	0144	1642	34668	2541			15137													
		STD	0150	1610	3462	2545	0025831	0430	15128													
	212	OBS	T0192	1407	34361	2570			15068													
		STD	0200	1372	3434	2575	0023028	0552	15057													
		STD	0250	1178	3420	2603	0020476	0661	14998													
	212	OBS	0285	1065	34131	2618			14963													
		STD	0300	1029	3411	2623	0018630	0759	14952													
	212	OBS	T0374	0866	34052	2645			14903													
		STD	0400	0817	3405	2652	0015883	0931	14889													
		STD	0500	0655	3404	2674	0013816	1080	14842													
	212	OBS	T0568	0570	34027	2684			14819													
		STD	0600	0544	3407	2691	0012235	1210	14814													
		STD	0700	0475	3419	2708	0010598	1324	14804													
	212	OBS	0757	0444	34251	2717			14802													
		STD	0800	0429	3429	2721	0009401	1424	14803													
		STD	0900	0397	3438	2732	0008444	1513	14807													
	212	OBS	T0954	0381	34416	2736			14810													
		STD	1000	0368	3443	2739	0007823	1595	14813													
		STD	1100	0342	3446	2743	0007396	1671	14819													
		STD	1200	0320	3448	2748	0007011	1743	14826													
		STD	1300	0301	3451	2752	0006657	1811	14835													
		STD	1400	0285	3454	2755	0006326	1876	14846													
	212	OBS	T1475	0275	34558	2758			14854													

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIR. INDIC.	MARDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
31	1249	PW	3001 N	13955 W		122	09	03	18	188	1968	N15	009	4206	17	10			3	X1	5	6	0009			
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
								11	523	301	178	133	8	14												
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	°C									
		STD	0000	1801	3482	2515	0028220	0000	15163																	
188		OBS	0000	1801	34822	2515			15163																	
		STD	0010	1797	3483	2516	0028138	0028	15164																	
188		OBS	0012	1796	34825	2517			15164																	
		STD	0020	1796	3482	2517	0028155	0056	15165																	
		STD	0030	1796	3482	2516	0028202	0085	15167																	
188		OBS	0032	1796	34822	2516			15167																	
		STD	0050	1794	3482	2517	0028226	0141	15169																	
188		OBS	0052	1794	34822	2517			15170																	
		STD	0075	1797	3482	2516	0028395	0212	15174																	
188		OBS	0080	1798	34820	2516			15175																	
		STD	0100	1794	3482	2517	0028410	0283	15177																	
188		OBS	0104	1793	34817	2517			15178																	
		STD	0125	1676	3462	2530	0027221	0352	15144																	
		STD	0150	1539	3441	2545	0025823	0419	15103																	
188		OBS	0156	1506	34367	2549			15094																	
		STD	0200	1267	3411	2579	0022670	0540	15019																	
188		OBS	T0207	1236	34034	2583			15009																	
		STD	0250	1143	3409	2601	0020622	0648	14984																	
		STD	0300	1037	3411	2621	0018802	0747	14955																	
188		OBS	0315	1006	34108	2627			14946																	
		STD	0400	0828	3402	2648	0016263	0922	14893																	
188		OBS	T0429	0776	34010	2655			14877																	
		STD	0500	0679	3406	2673	0013967	1073	14852																	
		STD	0600	0566	3413	2693	0012071	1203	14824																	
188		OBS	T0645	0524	34159	2700			14815																	
		STD	0700	0487	3421	2709	0010597	1317	14809																	
		STD	0800	0430	3428	2720	0009487	1417	14803																	
188		OBS	0861	0402	34330	2727			14802																	
		STD	0900	0390	3436	2731	0008510	1507	14804																	
		STD	1000	0362	3443	2739	0007746	1588	14810																	
188		OBS	T1069	0344	34470	2744			14814																	
		STD	1100	0336	3448	2746	0007179	1663	14816																	
		STD	1200	0313	3450	2749	0006841	1733	14824																	
		STD	1300	0292	3451	2753	0006523	1800	14832																	
		STD	1400	0274	3453	2756	0006227	1864	14841																	
		STD	1500	0258	3455	2759	0005957	1924	14851																	
188		OBS	T1687	0235	34589	2764			14873																	

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	1249	PW	3002 N	13952 W		122	09	03	20	194	1968	N15 010	4572	15	13			3	X2	4	8	0010
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB										
								23	S15	142		172	144	7	14							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	CHL a					
		STO	0000	1777	3474	2515	0028228	0000	15155													
194		OBS	0000	1777	34744	2515			15155													
		STD	0010	1775	3474	2516	0028214	0028	15156													
194		OBS	0010	1775	34744	2516			15156													
		STO	0020	1775	3474	2516	0028235	0056	15158													
		STO	0030	1774	3474	2516	0028263	0085	15159													
194		OBS	0030	1774	34743	2516			15159													
194		OBS	0049	1774	34745	2516			15162													
		STO	0050	1774	3475	2516	0028319	0141	15163													
194		OBS	0071	1778	34746	2515			15167													
		STD	0075	1778	3475	2515	0028474	0212	15168													
194		OBS	0095	1776	34744	2515			15170													
		STO	0100	1751	3470	2518	0028270	0483	15163													
		STO	0125	1623	3451	2534	0026842	0352	15127													
194		OBS	0144	1526	34376	2545			15098													
		STD	0150	1491	3433	2549	0025393	0417	15087													
194		OBS	T0195	1264	34059	2575			15017													
		STO	0200	1247	3407	2580	0022586	0537	15012													
		STD	0250	1094	3410	2611	0019712	0643	14967													
194		OBS	0289	0989	34110	2630			14936													
		STD	0300	0964	3410	2633	0017625	0736	14928													
194		OBS	T0387	0786	34022	2655			14875													
		STO	0400	0763	3402	2658	0015279	0901	14868													
		STD	0500	0613	3404	2680	0013262	1044	14825													
194		OBS	T0579	0528	34044	2691			14804													
		STO	0600	0518	3407	2694	0011910	1170	14804													
		STO	0700	0473	3420	2709	0010500	1282	14804													
194		OBS	0771	0444	34276	2719			14804													
		STD	0800	0433	3430	2722	0009374	1381	14805													
		STD	0900	0398	3437	2731	0008530	1470	14808													
194		OBS	T0972	0375	34412	2737			14811													
		STD	1000	0367	3443	2739	0007804	1552	14812													
		STD	1100	0339	3448	2746	0007184	1627	14818													
		STD	1200	0315	3451	2750	0006754	1697	14825													
		STD	1300	0294	3454	2755	0006354	1762	14833													
		STD	1400	0277	3455	2757	0006144	1825	14842													
194		OBS	T1474	0267	34556	2758			14851													

TABLE XI.—Continued

MESSNGR HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ DTN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH	S C
		STD	0000	1776	3475	2516	0028175	0000	15155								
192		OBS	0000	1776	34746	2516			15155								
192		OBS	0007	1774	34748	2516			15155								
		STD	0010	1773	3475	2516	0028139	0028	15156								
		STD	0020	1772	3475	2517	0028155	0056	15157								
192		OBS	0029	1771	34746	2517			15158								
		STD	0030	1771	3475	2517	0028172	0084	15158								
192		OBS	0047	1771	34750	2517			15161								
		STD	0050	1772	3475	2517	0028231	0141	15162								
192		OBS	0074	1774	34746	2516			15166								
		STD	0075	1774	3475	2516	0028384	0212	15167								
192		OBS	0096	1769	34743	2517			15169								
		STD	0100	1750	3472	2520	0028102	0282	15163								
		STD	0125	1632	3456	2535	0026676	0351	15130								
192		OBS	0145	1537	34438	2548			15102								
		STD	0150	1511	3440	2550	0025302	0416	15095								
192		OBS	T0195	1301	34140	2574			15030								
		STD	0200	1284	3414	2578	0022774	0536	15025								
		STD	0250	1121	3413	2608	0019966	0643	14977								
192		OBS	0293	0998	34113	2628			14940								
		STD	0300	0980	3410	2630	0017887	0737	14934								
192		OBS	0391	0778	34020	2656			14872								
		STD	0400	0762	3402	2658	0015279	0903	14867								
		STD	0500	0613	3403	2679	0013284	1046	14825								
192		OBS	T0589	0519	34042	2692			14802								
		STD	0600	0514	3406	2694	0011935	1172	14802								
		STD	0700	0473	3419	2709	0010574	1285	14803								
192		OBS	0781	0441	34280	2719			14805								
		STD	0800	0433	3430	2722	0009374	1384	14805								
		STD	0900	0396	3437	2731	0008506	1474	14807								
192		OBS	T0976	0370	34420	2738			14809								
		STD	1000	0362	3443	2739	0007746	1555	14810								
		STD	1100	0334	3448	2746	0007126	1629	14816								
		STD	1200	0309	3452	2752	0006611	1698	14822								
		STD	1300	0289	3455	2756	0006223	1762	14831								
		STD	1400	0274	3456	2758	0006035	1824	14841								
		STD	1500	0262	3456	2759	0005952	1883	14853								
192		OBS	T1504	0262	34563	2759			14854								

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDCT	MARDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	1249	PW	3004 N	13955 W		122	09	03	22	186	1968	N15	012	4389	15	30			2	X1	612	0012
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								34	S05	264	189	133	8	14								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	Si O ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C C					
		STD	0000	1794	3482	2517	0028071	0000	15161													
186		OBS	0000	1794	34820	2517			15161													
		STD	0010	1792	3482	2517	0028057	0028	15162													
186		OBS	0010	1792	34820	2517			15162													
		STD	0020	1790	3483	2518	0028000	0056	15163													
		STD	0030	1789	3483	2519	0027973	0084	15165													
186		OBS	0030	1789	34831	2519			15165													
		STD	0050	1794	3485	2519	0027996	0140	15170													
186		OBS	0050	1794	34853	2519			15170													
		STD	0075	1799	3486	2519	0028123	0210	15175													
186		OBS	0075	1799	34863	2519			15175													
		STD	0100	1796	3486	2519	0028178	0281	15178													
186		OBS	0100	1796	34857	2519			15178													
		STD	0125	1642	3459	2535	0026680	0349	15133													
		STD	0150	1494	3437	2552	0025164	0414	15089													
186		OBS	0152	1482	34356	2553			15085													
		STD	0200	1208	3406	2586	0021934	0532	14998													
186		OBS	T0208	1172	34025	2590			14987													
		STD	0250	1081	3406	2609	0019810	0636	14962													
		STD	0300	0977	3409	2630	0017889	0730	14933													
186		OBS	0305	0967	34097	2632			14930													
		STD	0400	0782	3402	2655	0015578	0898	14875													
186		OBS	T0409	0766	34017	2657			14870													
		STD	0500	0615	3403	2679	0013326	1042	14826													
		STD	0600	0497	3408	2697	0011579	1167	14795													
186		OBS	T0606	0491	34083	2698			14794													
		STD	0700	0448	3421	2713	0010126	1275	14793													
		STD	0800	0410	3431	2725	0009029	1371	14795													
186		OBS	0810	0407	34321	2726			14796													
		STD	0900	0384	3438	2733	0008292	1458	14802													
		STD	1000	0359	3444	2740	0007637	1537	14809													
186		OBS	T1006	0358	34443	2741			14810													
		STD	1100	0337	3447	2745	0007271	1612	14817													
		STD	1200	0316	3449	2748	0006928	1683	14825													
		STD	1300	0296	3451	2752	0006584	1750	14833													
		STD	1400	0279	3454	2755	0006277	1815	14843													
		STD	1500	0263	3456	2759	0005971	1876	14853													
186		OBS	T1531	0258	34566	2760			14857													

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311	249	PW	3001 N	13951 W		122	09	03	23	186	1968	N15	013	4480	42	07				1	X1	2 3	0013
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB		WET BULB											
									09	509	268	183	144	8	21								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C					
		STD	0000	1793	3480	2516	0028171		0000	15161													
186		OBS	0000	1793	34803	2516				15161													
		STD	0010	1791	3480	2516	0028165		0028	15162													
186		OBS	0010	1791	34802	2516				15162													
		STD	0020	1788	3480	2517	0028120		0056	15162													
		STD	0030	1786	3480	2518	0028099		0084	15163													
186		OBS	0030	1786	34804	2518				15163													
		STD	0050	1789	3482	2518	0028133		0141	15168													
186		OBS	0050	1789	34818	2518				15168													
		STD	0075	1793	3483	2518	0028229		0211	15173													
186		OBS	0075	1793	34829	2518				15173													
		STD	0100	1757	3476	2521	0028002		0281	15166													
186		OBS	0100	1757	34756	2521				15166													
		STD	0125	1591	3448	2539	0026360		0349	15116													
		STD	0150	1439	3427	2556	0024756		0413	15070													
186		OBS	0152	1427	34254	2557				15066													
		STD	0200	1171	3401	2589	0021626		0529	14985													
186		OBS	T0205	1150	33992	2592				14978													
		STD	0250	1052	3404	2613	0019437		0632	14951													
		STD	0300	0952	3409	2634	0017489		0724	14924													
186		OBS	0305	0942	34097	2636				14921													
		STD	0400	0778	3404	2657	0015409		0889	14874													
186		OBS	0405	0770	34032	2658				14871													
		STD	0500	0622	3404	2679	0013344		1032	14829													
		STD	0600	0509	3409	2697	0011651		1157	14800													
186		OBS	T0611	0499	34094	2698				14798													
		STD	0700	0459	3420	2711	0010331		1267	14798													
		STD	0800	0421	3430	2723	0009232		1365	14800													
186		OBS	0810	0417	34313	2724				14800													
		STD	0900	0390	3437	2732	0008428		1453	14804													
		STD	1000	0362	3444	2740	0007709		1534	14810													
186		OBS	T1007	0360	34439	2740				14811													
		STD	1100	0340	3447	2745	0007269		1609	14818													
		STD	1200	0319	3450	2749	0006874		1680	14826													
		STD	1300	0299	3452	2752	0006560		1747	14835													
		STD	1400	0281	3454	2756	0006264		1811	14844													
		STD	1500	0264	3456	2759	0005975		1872	14854													
186		OBS	T1517	0261	34565	2759				14855													
206		OBS	T1652	0240	34585	2763				14869													
		STD	1750	0228	3460	2765	0005385		2014	14881													
		STD	2000	0201	3462	2769	0005023		2144	14912													
206		OBS	2162	0187	34635	2771				14934													
		STD	2500	0169	3465	2774	0004587		2385	14984													
206		OBS	T2667	0162	34661	2775				15010													
		STD	3000	0155	3467	2776	0004410		2609	15065													
206		OBS	T3177	0152	34674	2777				15094													
206		OBS	T3656	0148	34682	2778				15176													
		STD	4000	0149	3468	2778	0004497		3055	15237													
206		OBS	T4132	0149	34684	2778				15261													
206		OBS	42130	0151	34688	2778																	

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ABFT INDIC	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- TER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311249	PW		3000 N	13954 W		122	09	03	24	194	1968	N15	014	4023	15	31			2	X1	2	6	0014
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								09	505	268		200	168	7	14								
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	1826	3492	2516	0028118		0000	15171													
194		OBS	0000	1826	34917	2516				15171													
		STD	0010	1823	3492	2517	0028066		0028	15172													
194		OBS	0010	1823	34919	2517				15172													
		STD	0020	1817	3492	2519	0027965		0056	15172													
		STD	0030	1813	3492	2520	0027911		0084	15173													
194		OBS	0030	1813	34917	2520				15173													
		STD	0050	1812	3492	2520	0027954		0140	15176													
194		OBS	0050	1812	34917	2520				15176													
		STD	0075	1816	3493	2520	0028059		0210	15181													
194		OBS	0075	1816	34927	2520				15181													
		STD	0100	1815	3493	2520	0028075		0280	15185													
194		OBS	0100	1815	34933	2520				15185													
		STD	0125	1709	3471	2529	0027314		0349	15155													
		STD	0150	1575	3450	2544	0025941		0416	15116													
194		OBS	0152	1563	34480	2545				15112													
		STD	0200	1220	3407	2585	0022082		0536	15003													
194		OBS	T0202	1209	34062	2586				14999													
		STD	0250	1096	3410	2610	0019747		0641	14968													
		STD	0300	0984	3410	2630	0017952		0735	14936													
194		OBS	0306	0971	34103	2632				14932													
		STD	0400	0776	3402	2656	0015498		0902	14873													
194		OBS	T0410	0758	34010	2658				14867													
		STD	0500	0610	3403	2680	0013260		1046	14824													
		STD	0600	0494	3409	2698	0011468		1169	14794													
194		OBS	T0610	0485	34096	2700				14792													
		STD	0700	0450	3420	2712	0010224		1278	14794													
		STD	0800	0416	3430	2723	0009173		1375	14798													
194		OBS	0808	0413	34310	2725				14798													
		STD	0900	0387	3438	2733	0008327		1462	14803													
		STD	1000	0361	3444	2740	0007660		1542	14810													
194		OBS	T1003	0360	34441	2740				14810													
		STD	1100	0337	3449	2747	0007087		1616	14817													
		STD	1200	0316	3453	2752	0006618		1685	14825													
		STD	1300	0296	3455	2755	0006304		1749	14834													
		STD	1400	0280	3456	2757	0006105		1811	14844													
		STD	1500	0265	3456	2759	0005987		1872	14854													
194		OBS	T1525	0262	34562	2759				14857													

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE		CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
31	1249	PW	3005 N	13953 W		122	09	03	25	195	1968	N15	015	4755	15	12			2	X2	6	8		0015
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	CIR.	SPEED OR FORCE		DRY BULB	WET BULB												
									11	505	271	189	156	7	14									
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C							
		STD	0000	1800	3480	2514	0028357	0000	15163															
195		OBS	0000	1800	34800	2514			15163															
195		OBS	0009	1794	34802	2515			15162															
		STD	0010	1793	3480	2515	0028226	0028	15162															
		STD	0020	1784	3479	2517	0028122	0056	15161															
195		OBS	0028	1780	34787	2518			15161															
		STD	0030	1780	3479	2518	0028061	0085	15162															
195		OBS	0047	1780	34795	2518			15164															
		STD	0050	1779	3479	2518	0028103	0141	15164															
195		OBS	0071	1776	34789	2519			15167															
		STD	0075	1776	3479	2519	0028096	0211	15168															
195		OBS	0094	1773	34799	2520			15170															
		STD	0100	1730	3472	2525	0027642	0281	15157															
		STD	0125	1575	3444	2539	0026304	0348	15111															
195		OBS	0144	1480	34294	2549			15082															
		STD	0150	1462	3427	2551	0025229	0412	15077															
195		OBS	T0193	1328	34154	2570			15039															
		STD	0200	1302	3415	2575	0023046	0533	15031															
		STD	0250	1133	3413	2606	0020179	0641	14981															
195		OBS	0287	1028	34110	2623			14950															
		STD	0300	1000	3410	2627	0018217	0737	14941															
195		OBS	T0385	0830	34027	2649			14891															
		STD	0400	0797	3403	2654	0015740	0907	14881															
		STD	0500	0617	3404	2679	0013307	1052	14827															
195		OBS	T0573	0524	34042	2691			14801															
		STD	0600	0511	3408	2696	0011750	1178	14801															
		STD	0700	0465	3421	2711	0010329	1288	14800															
195		OBS	0763	0439	34272	2719			14801															
		STD	0800	0426	3430	2722	0009291	1386	14802															
		STD	0900	0393	3437	2731	0008471	1475	14806															
195		OBS	T0959	0375	34406	2736			14808															
		STD	1000	0363	3442	2738	0007846	1556	14810															
		STD	1100	0337	3445	2743	0007412	1633	14816															
		STD	1200	0314	3447	2747	0007008	1705	14824															
		STD	1300	0294	3450	2752	0006627	1773	14832															
		STD	1400	0278	3453	2755	0006295	1838	14843															
195		OBS	T1456	0270	34547	2757			14849															

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	OBS. INDIC.	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO, NO.					10°	1°	MO	DAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT.		
31	1249	PW	3004 N	13955 W		122	09	03	26	201	1968	N15	016	4755	15	15			2	X1	6	7	0016	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	OR.	WET BULB	DRY BULB																	
						10	508	271	172	161	7	14												
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S CC							
		STD	0000	1780	3469	2511	0028668	0000	15155															
201		OBS	0000	1780	34693	2511			15155															
		STD	0010	1774	3469	2512	0028562	0029	15155															
201		OBS	0010	1774	34693	2512			15155															
		STD	0020	1762	3465	2512	0028629	0057	15153															
		STD	0030	1752	3462	2512	0028649	0086	15151															
201		OBS	0030	1752	34620	2512			15151															
201		OBS	0049	1739	34625	2515			15151															
		STD	0050	1740	3463	2515	0028401	0143	15151															
201		OBS	0074	1742	34625	2515			15156															
		STD	0075	1742	3463	2515	0028528	0214	15156															
201		OBS	0098	1726	34613	2517			15155															
		STD	0100	1717	3460	2519	0028217	0285	15152															
		STD	0125	1609	3446	2533	0026898	0354	15122															
201		OBS	0149	1509	34336	2546			15093															
		STD	0150	1505	3433	2546	0025687	0420	15092															
		STD	0200	1313	3413	2571	0023441	0542	15035															
201		OBS	T0200	1313	34125	2571			15035															
		STD	0250	1143	3412	2603	0020453	0652	14985															
201		OBS	0298	1010	34109	2626			14945															
		STD	0300	1006	3411	2627	0018266	0749	14944															
201		OBS	T0398	0827	34022	2649			14892															
		STD	0400	0823	3402	2649	0016166	0921	14891															
		STD	0500	0645	3405	2677	0013584	1070	14838															
201		OBS	T0594	0526	34074	2693			14806															
		STD	0600	0522	3408	2694	0011885	1197	14806															
		STD	0700	0466	3419	2709	0010490	1309	14801															
201		OBS	0786	0425	34273	2720			14799															
		STD	0800	0420	3429	2722	0009294	1408	14799															
		STD	0900	0386	3437	2732	0008389	1496	14803															
201		OBS	T0982	0361	34431	2740			14807															
		STD	1000	0356	3444	2740	0007639	1577	14808															
		STD	1100	0329	3446	2745	0007216	1651	14813															
		STD	1200	0306	3449	2749	0006834	1721	14820															
		STD	1300	0287	3451	2753	0006494	1788	14829															
		STD	1400	0271	3454	2756	0006184	1851	14840															
201		OBS	T1485	0260	34556	2759			14849															

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311	249	PW	3008 N	13958 W	122	09	03	27	198	1968	N15	017	4755	15	07			2	X1	2	6	0017
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB													
						08		520		274		183		150		7		14				
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ²		Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STO	0000	1780	3471	2511	0028574		0000	15156												
	198	OBS	0000	1780	34706	2511				15156												
	198	OBS	0008	1774	34711	2513				15155												
		STO	0010	1774	3471	2513	0028424		0028	15156												
		STO	0020	1774	3472	2514	0028398		0057	15157												
		STO	0030	1774	3473	2515	0028380		0085	15159												
	198	OBS	0031	1774	34728	2515				15159												
	198	OBS	0047	1778	34778	2517				15164												
		STO	0050	1787	3481	2518	0028145		0142	15167												
		STO	0075	1830	3497	2520	0028050		0212	15186												
	198	OBS	0075	1830	34974	2520				15186												
	198	OBS	0094	1828	34985	2521				15188												
		STO	0100	1825	3498	2521	0027968		0282	15188												
		STO	0125	1810	3495	2523	0027909		0352	15188												
	198	OBS	0143	1800	34932	2524				15188												
		STO	0150	1737	3483	2531	0027163		0421	15169												
	198	OBS	T0189	1431	34363	2565				15075												
		STO	0200	1368	3432	2575	0023095		0546	15056												
		STO	0250	1127	3418	2611	0019705		0653	14980												
	198	OBS	0282	1010	34110	2626				14942												
		STO	0300	0976	3409	2630	0017895		0747	14933												
	198	OBS	T0378	0833	34033	2649				14891												
		STO	0400	0786	3403	2656	0015548		0915	14877												
		STO	0500	0610	3403	2679	0013267		1059	14824												
	198	OBS	T0564	0529	34027	2689				14802												
		STO	0600	0510	3407	2695	0011811		1184	14801												
		STO	0700	0461	3419	2710	0010429		1295	14798												
	198	OBS	0754	0438	34241	2716				14799												
		STO	0800	0421	3429	2722	0009306		1394	14800												
		STO	0900	0388	3437	2732	0008413		1483	14804												
	198	OBS	T0950	0373	34410	2737				14806												
		STO	1000	0359	3442	2739	0007755		1563	14809												
		STO	1100	0333	3445	2744	0007321		1639	14815												
		STO	1200	0311	3448	2748	0006936		1710	14822												
		STO	1300	0293	3451	2752	0006586		1778	14832												
		STO	1400	0279	3454	2755	0006277		1842	14843												
	198	OBS	T1468	0271	34554	2756				14851												

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DUTY BOAT	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	1249	PW	3004 N	13957 W		122	09	03	28	189	1968	N15	018	4389	16	08			2	X2	2 7	0018
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								08	S15	254	183	156	7	14								
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	Σ AD DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CHL C					
		STD	0000	1768	3469	2513	0028448	0000	15152													
189		OBS	0000	1768	34685	2513			15152													
189		OBS	0009	1766	34686	2513			15153													
		STD	0010	1766	3469	2513	0028421	0028	15153													
		STD	0020	1762	3468	2514	0028403	0057	15153													
		STD	0030	1759	3468	2514	0028389	0085	15154													
189		OBS	0033	1758	34677	2515			15154													
		STD	0050	1768	3472	2515	0028366	0142	15161													
189		OBS	0051	1769	34721	2515			15161													
		STD	0075	1744	3465	2516	0028418	0213	15157													
189		OBS	0079	1740	34634	2516			15156													
		STD	0100	1773	3477	2518	0028270	0284	15171													
189		OBS	0102	1776	34773	2518			15172													
		STD	0125	1674	3463	2531	0027103	0353	15144													
		STD	0150	1558	3448	2546	0025720	0419	15110													
189		OBS	0153	1544	34456	2547			15106													
		STD	0200	1311	3413	2572	0023366	0542	15034													
189		OBS	T0204	1294	34113	2574			15029													
		STD	0250	1154	3411	2600	0020702	0652	14988													
		STD	0300	1018	3411	2624	0018467	0750	14948													
189		OBS	0307	1001	34106	2627			14943													
		STD	0400	0804	3402	2652	0015903	0922	14884													
189		OBS	T0412	0782	34011	2655			14877													
		STD	0500	0643	3403	2675	0013698	1070	14837													
		STD	0600	0525	3408	2694	0011923	1198	14807													
189		OBS	T0620	0506	34090	2697			14802													
		STD	0700	0467	3419	2709	0010502	1310	14801													
		STD	0800	0424	3429	2722	0009341	1409	14801													
189		OBS	0827	0414	34311	2725			14802													
		STD	0900	0392	3436	2731	0008533	1499	14805													
		STD	1000	0364	3442	2738	0007843	1580	14811													
189		OBS	1032	0355	34441	2741			14813													
		STD	1100	0338	3446	2744	0007342	1656	14817													
		STD	1200	0315	3448	2748	0006968	1728	14824													
		STD	1300	0294	3451	2752	0006612	1796	14832													
		STD	1400	0276	3453	2755	0006294	1860	14842													
		STD	1500	0260	3455	2759	0005987	1922	14852													
189		OBS	T1562	0252	34567	2760			14859													

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1249	PW	3007 N	13957 W		122	09	03	29	190	1968	N15	019	4663	16	09			2	X1	6	3	0019
						WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)		DRY BULB	WET BULB														
						07	S13	254	178	156	7	14											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SIO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S CONT.						
		STD	0000	1781	3474	2514	0028335	0000	15156														
190		OBS	0000	1781	34742	2514			15156														
190		OBS	0009	1779	34740	2514			15157														
		STD	0010	1780	3474	2514	0028326	0028	15158														
		STD	0020	1785	3477	2515	0028269	0057	15161														
		STD	0030	1790	3480	2516	0028217	0085	15165														
190		OBS	0033	1792	34811	2517			15166														
		STD	0050	1820	3493	2519	0028049	0141	15178														
190		OBS	0051	1821	34938	2519			15179														
		STD	0075	1817	3493	2520	0028046	0211	15181														
190		OBS	0080	1816	34931	2520			15182														
		STD	0100	1815	3493	2520	0028096	0281	15185														
190		OBS	0103	1812	34930	2521			15184														
		STD	0125	1751	3485	2530	0027261	0351	15169														
		STD	0150	1645	3469	2542	0026096	0417	15140														
190		OBS	0156	1614	34644	2546			15131														
		STD	0200	1295	3410	2573	0023277	0541	15028														
190		OBS	T0208	1249	34036	2577			15013														
		STD	0250	1145	3407	2599	0020871	0651	14985														
		STD	0300	1028	3410	2622	0018694	0750	14952														
190		OBS	0314	0997	34109	2628			14943														
		STD	0400	0816	3402	2650	0016082	0924	14888														
190		OBS	T0420	0778	34010	2655			14877														
		STD	0500	0644	3403	2675	0013689	1073	14838														
		STD	0600	0519	3406	2693	0011982	1201	14804														
190		OBS	0629	0491	34070	2697			14797														
		STD	0700	0461	3416	2708	0010652	1314	14798														
		STD	0800	0423	3427	2720	0009478	1415	14800														
190		OBS	0838	0410	34308	2725			14802														
		STD	0900	0393	3435	2730	0008619	1505	14805														
		STD	1000	0366	3442	2738	0007866	1588	14812														
190		OBS	1046	0355	34446	2741			14815														
		STD	1100	0342	3446	2744	0007381	1664	14819														
		STD	1200	0320	3448	2747	0007026	1736	14826														
		STD	1300	0301	3450	2751	0006708	1805	14835														
		STD	1400	0283	3453	2754	0006398	1870	14845														
		STD	1500	0268	3455	2758	0006111	1933	14855														
190		OBS	T1577	0258	34565	2760			14864														

TABLE XI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME GMT-1		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1249	PW	3007 N	13955 W	122	09	03	30	070	1968	N15	020	4663	16	07		2	X1	613	0020
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbsl)		DRY BULB	WET BULB											
						08	515	240	161	144	7	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiD ₄ -Si µg - ml/l	pH		
		STD	0000	1771	3475	2517		0028081	0000		15153									
		OBS	0000	1771	34745	2517					15153									
070		OBS	0009	1764	34743	2518					15153									
		STD	0010	1764	3474	2518		0027974	0028		15153									
		STD	0020	1760	3474	2519		0027965	0056		15153									
		STD	0030	1753	3473	2520		0027887	0084		15153									
070		OBS	0034	1750	34725	2520					15153									
		STD	0050	1732	3464	2518		0028098	0140		15149									
070		OBS	0053	1728	34638	2519					15148									
		STD	0075	1776	3479	2519		0028115	0210		15168									
070		OBS	0082	1784	34821	2519					15172									
		STD	0100	1786	3484	2520		0028077	0280		15175									
070		OBS	0106	1786	34843	2520					15176									
		STD	0125	1694	3469	2531		0027118	0349		15150									
		STD	0150	1565	3449	2545		0025798	0416		15113									
070		OBS	0160	1512	34416	2551					15097									
		STD	0200	1272	3412	2579		0022691	0537		15021									
070		OBS	T0213	1209	34050	2585					15001									
		STD	0250	1119	3408	2605		0020298	0644		14976									
		STD	0300	1009	3410	2625		0018367	0741		14945									
070		OBS	0320	0969	34102	2632					14933									
		STD	0400	0831	3403	2649		0016235	0914		14894									
070		OBS	0427	0787	34016	2654					14881									
		STD	0500	0652	3403	2674		0013820	1064		14841									
		STD	0600	0514	3407	2694		0011861	1193		14802									
070		OBS	0642	0472	34100	2702					14792									
		STD	0700	0451	3417	2709		0010458	1304		14794									
		STD	0800	0418	3427	2721		0009419	1404		14798									
070		OBS	0851	0403	34314	2726					14801									
		STD	0900	0390	3435	2730		0008584	1494		14804									
		STD	1000	0366	3442	2738		0007866	1576		14812									
070		OBS	T071	0349	34462	2743					14817									
		STD	1100	0342	3448	2745		0007219	1651		14819									
		STD	1200	0321	3452	2750		0006750	1721		14827									
		STD	1300	0300	3455	2755		0006350	1787		14835									
		STD	1400	0281	3458	2759		0005970	1848		14845									
		STD	1500	0263	3458	2760		0005817	1907		14854									
070		OBS	T1620	0244	34580	2762					14866									

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